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Center for Genomics Research, Harvard University, 02138, Cambridge, MA, USA  [Record supplied by publisher]  The strong correlation between protein folding rates and the contact order suggests that folding rates are largely determined by the topology of the native structure. However, for a given topology, there may be several possible low free energy paths to the native state and the path that is chosen (the lowest free energy path) may depend on differences in interaction energies and local free energies of ordering in different parts of the structure. For larger proteins whose folding is assisted by chaperones, such as the Escherichia coli chaperonin GroEL, advances have been made in understanding both the aspects of an unfolded protein that GroEL recognizes and the mode of binding to the chaperonin. The possibility that GroEL can remove non-native proteins from kinetic traps by unfolding them either during polypeptide binding to the chaperonin or during the subsequent ATP-dependent formation of folding-active complexes with the co-chaperonin GroES has also been explored. Copyright 1999 Academic Press.	PubMed Services	Mechanisms of proteir	i folding.	·
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1. chaperone

Author: Leo M. Hall

**Definition:** 

A <u>heat shock protein</u> that assists in the proper folding of other proteins.

#### END

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# chaperonin

< cell biology > Subset of chaperone proteins found in prokaryotes, mitochondria and plastids major example is prokaryotic GroEL (the eukaryotic equivalent of which is hsp60).

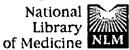
(18 Nov 1997)

Previous: channel protein, channel transport, chanoclavin-I-cyclase, chaparral, chaperone Next: chaperonin 10, chaperonin 60, chaperonins, chaplaincy service, hospital

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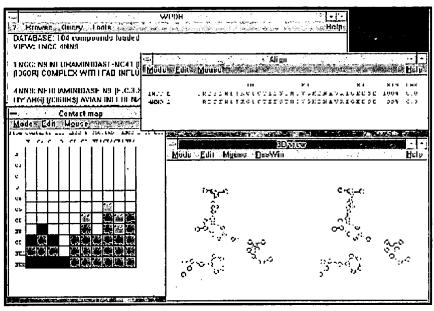




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# WPDB - The Protein Data Bank Through Microsoft Windows



Last Update Jan. 24, 1998 <u>PEB</u>

Current Version 2.2

# NEW CDROM Available with over 6000 structures. Send email to pdbadmin@sdsc.edu requesting a copy.

## **Contents**

- What is WPDB?
- Features
- Typical Uses
- Learning by example
  - Example 1 Comparison of alpha and beta chains of human hemoglobin
  - Example 2 Searching for buried residues in lysozyme
  - Example 3 Thermal motion in a toxic loop
  - Example 4 Changes in a neuraminidase upon virus binding
  - Example 5 A simple geometry check
- How to get WPDB
- Building your own databases with WPDBL
- References and Citing WPDB
- Frequently Asked Questions
- Contact information and Mailing List
- Future Directions

## What is WPDB?

The PDB through Microsoft Windows, or WPDB for short, is a Microsoft Windows 3.1 Windows 95 and Windows NT (client and server) based program to interrogate the 3-dimensional structure of biological macromolecules as found in the Protein Data Bank (PDB) using query and display tools like those shown above.

### **Features**

The features supported by WPDB are divided into 2 categories, those that have scientific merit and those considered to be computationally interesting.

#### Scientific:

- 1. Find structures based on text and sequences searches (mismatches allowed).
- 2. Sequence alignment of one register sequence against multiple target sequences according to the method of Needleman and Wunsch (*JMB* **48(3)**: 443-453, 1970).
- 3. Structure superposition using Calpha positions according to the method of Hendrickson (*Acta Cryst.* **A35**:158-163, 1979.
- 4. Secondary structure assignments according to the method of Kabsch and Sander.
- 5. Amino acid property profile analysis, both static and dynamic: static according to the values compiled by Bogardt et al.; dynamic, mean exposure according to Lee and Richards (*JMB* 55:379-400, 1971) and experimental B factors. Profiles for a single polypeptide chain or difference profiles for two aligned polypeptide chains may be examined.
- 6. Contact map analysis at different cut-off distances and with different atom groups in contact. Single structures or superimposed structures (difference contact maps) can be examined.
- 7. Typical 3-D viewing and rendering, including options to display or highlight substructures, CPK representation, stereo, and simple surfaces (colored based on distance from user).
- 8. Geometry calculation (bond lengths, bond angles, dihedral angles, close non-bonded contacts) including graphical representation and deviations from small molecule distances.

## Computing:

- 1. Data compression -- about a 20-fold reduction in storage over the PDB ASCII file distribution, but with: (i) bibliographic information limited to AUTHOR and JRNL records; (ii) optionally the first or all members of an ensemble of NMR or model structures included; (iii) only the first alternative conformation as defined in the PDB file for parts of a crystal structure with partial occupancies; (iv) atomic coordinates rounded to 2 and not 3 decimal places; (v) no PDB REMARK records.
- 2. Interoperable display objects -- when a feature is selected in one display object (e.g. a contact map), all other visible display objects (e.g. 3-D viewer) and those invoked subsequently, are also updated to illustrate that feature.
- 3. Direct access to Raswin the popular molecular display program.
- 4. Synchronized printed documentation and context sensitive help created using the DocToHelp package.

## **Typical Uses**

- Analysis of protein-protein and protein-ligand interactions.
- Analysis of internal interactions in proteins to reveal different folds (e.g. helix-helix hydrophobic stacking).
- Analysis of sequence-structure correlation's using sequence search and static property profiles.
- As above with sequence homology and structure superposition.
- Analysis of thermal motion using dynamic property profiles.
- Locate structures based on string searches of combinations of PDB record types and/or sequence patterns.
- Basic molecular rendering.
- Basic geometry checking.

## **How to Get WPDB**

WPDB is available via anonymous ftp from ftp.sdsc.edu in the directory /pub/sdsc/biology/WPDB. The distribution is organized into 6 parts:

- 1. wpdbbin.zip [.7MB] the executables and documentation (a Microsoft help file). Includes raswin the molecule display program called directly from WPDB.
- 2. wpdb100r.zip [2.1MB] a small test database of 100 structures, including PDB REMARK records.
- 3. wpdb420r.zip [9.8MB] 420 "unique structures," including PDB REMARK records
- 4. full\_1.zip [68.9MB] and full\_2.zip [16.6MB] the complete PDB in two parts (both required).
- 5. wpdbps.zip [.5MB] program manual in color Postscript.
- 6. install installation script (DOS)

Only one of 2-4 is required. All files are compressed using pkzip. The program pkunzip.exe (runs under DOS) is available in the distribution directory if needed.

The loader (WPDBL) for building your own WPDB database is available here also.

[Download]

## **Building Your Own Databases with WPDBL**

The software to build your own databases is called WPDBL and is available in the same location as WPDB. The basic steps in building a database are:

- 1. Select a group of PDB files using the file selector.
- 2. Optionally select whether PDB REMARKS, different members of an NMR ensemble etc. are to be included
- 3. Build the database

#### Note:

- An "average structure" takes from 1-5 minutes to load depending on type of processor.
- An existing database can be incremented.

#### [Download] [Example]

## **References and Citing WPDB**

Those using WPDB should cite:

I.N.Shindyalov and P.E.Bourne *J. App. Cryst.* 1995, **28**(6) 847-852. WPDB A PC-based Tool for Analyzing Protein Structure. [Postscript]

Further details of the data model used by WPDB can be found in I.N.Shindyalov and P.E. Bourne *CABIOS* 1997, Submitted. Protein Data Representation and Query Using Optimized Data Decomposition.

## **Contact Information and Mailing List**

Need help?

Contact the authors: <u>Ilya Shindyalov</u> and <u>Phil Bourne</u>

Join the mailing list: send mail to majordomo@sdsc.edu with the body of the message containing subscribe wpdb

## **Future Directions**

Some of the enhancements that we are working on for v3.0 are as follows...

- 32-bit only version
- CDROM distribution this depends on an amendment to the PDB licensing agreement for non-profit distribution.
- Extended query capability like that found in MOOSE
- Links to external databases via the Internet
- A more intuitive Windows look and feel.



## **DOCKING-D**

### Goal

The main focus of pharmaceutical research is to create new drugs. Drugs develop their biological effects by docking to receptors which are biomolecules, according to the so-called key-lock principle. In rational drug design the goal is to find and design new potential drugs, so called lead substances, by analyzing existing geometrical and physico-chemical data about small molecules or ligands and proteins, which serve as receptors. As a member of the consortium for the "Computation and Prediction of Receptor-Ligand Interaction" GMD-IPSI participates in the national joint project RELIWE funded by the German Federal Ministry for Science and Technology BMBF. Goal of RELIWE is the development of new algorithms and database concepts that allow to develop models of receptor-ligand complexes by combining tools for model building, docking and database search.

Docking-D is the part of RELIWE which considers heterogeneous database support and in which GMD-IPSI with its expertise takes a leading role. The results of RELIWE are a step towards a goal-oriented design of diagnostics and pharmaceutics, with a perspective of enormous economic and social importance.

## Scenario

Due to new methods for determining the three-dimensional structure of proteins the available data for rational drug design is currently growing enormously. The receptor and ligand data, either raw data or data derived during analysis, is extremely heterogeneous. In pharmaceutical companies there exist proprietary databases containing several 100.000 known ligands. Public databases contain the structures of currently approximately 2000 proteins and over 100.000 protein sequences and reach a size of several 100MB. Other data like mutations, homology data or secondary structures is scattered in different private and public databases. A number of tools, like receptor-ligand docking algorithms, model building tools for receptors or visualization tools, are based on these data. The challenge is to integrate this data and tools for the analysis of receptor-ligand-docking. We use the object-oriented database management system VODAK for this purpose. We have developed a database schema that allows to represent all the data with its complex relationships and algorithms (ReLiBase schema). In order to integrate the data from heterogeneous resources we proceed in two phases. First the data is analyzed, corrected and enriched by the industrial partners by special purpose tools. As a result, we obtain data files and a specification of how to integrate the data. The specification is given in a specially developed language. In a second phase the data files and the integration specification are automatically converted into the internal database system representation, and then interconnected and indexed. In this way we obtain the integrated object-oriented receptor-ligand database ReLiBase.

## **Application**

The main application of ReLiBase is posing associative queries for analyzing the available data. In these queries one exploits the object relationships derived from different databases and algorithms available with ReLiBase. A typical query would be: Find all receptor-ligand complexes where the receptor is

evolutionary similar to a specific protein and the ligand has a specific substructure. The query is posed in a SQL-like declarative language. For answering this query data from the Brookhaven structure database PDB, from ligand databases and from a computed homology database is needed. Additionally, a substructure search algorithm for ligands is used. For optimized access a precomputed substructure index for frequently used ligand fragments can be exploited. For optimized query evaluation application-specific knowledge, like algorithm cost or the existence of application-specific indexes has to be considered. To accomplish this is one of the major research tasks within this project and the VODAK department. As a member of the consortium for the "Computation and Prediction of Receptor-Ligand Interaction" two institutes of GMD, the Integrated Publication and Information Systems Institute, GMD-IPSI, Darmstadt, and the Institute for Methodological Foundations, Sankt Augustin, participate in the national joint project RELIWE funded by BMFT Germany. Other participants in this project are the European Molecular Biology Laboratory EMBL, Heidelberg, and two industrial partners, BASF, Ludwigshafen, and Merck, Darmstadt. The project started in April 1993.

### **Partners**

GMD-IPSI cooperates with

- European Molecular Biology Laboratory EMBL, Heidelberg,
- BASF, Ludwigshafen,
- Merck, Darmstadt and
- GMD-SCAI, Sankt Augustin

The project started in April 1993 and will expire in February 1997. Consecutive exploitation of the results is planned.

## Start ReLiBase

## **Publications**

## Demand-driven Database Integration for Biomolecular Database Applications

Karl Aberer

<u>Electronic proceedings</u> of the Meeting on the Interconnection of Molecular Biology Databases (MIMBD) '94, Stanford University, August 9-12, 1994

We describe the bioinformatics database research at GMD-IPSI within the Docking-D project and the approach to database integration pursued within that project.

Extended abstract.

## The Use of Object-Oriented Data Models for Biomolecular Databases

Karl Aberer

Proceedings of OOCNS 95 (Object-Oriented Computing in the Natural Sciences). Heidelberg, Germany, 1995

This paper reflects some experiences on the use of object-oriented data models for biomolecular databases, that were gained during the work on the Docking-D project, where object-oriented database technology is used to build up an integrated database for the support of drug design. We want to elucidate different aspects, on what are the advantages for using object-oriented data models in biomolecular data management, how object-oriented database management systems can be used and what are the limitations of the current state in the technology.

## Constituting a Receptor-Ligand Database from Quality-Enriched Data

Klemens Hemm, Karl Aberer, Manfred Hendlich

Proceedings of the International Conference on Intelligent Systems in Molecular Biology 95 (ISMB 95), Cambridge, UK, 1995.

Many different resources are needed for analyzing relevant experimental data in drug design. Currently this data is difficult to access, because it is stored in heterogeneous databases, spread over many platforms, poorly interconnected, incomplete, erroneous, or just not electronically available. In order to establish a high quality database for drug design we have developed a new demand-driven methodology for integrating and semantically enriching heterogeneous data from different research areas and for migrating the data into an object-oriented database management system. In this way we have established a database containing well-prepared, relevant data needed for drug design and offering the advantages of modern database technology, like a comprehensive object-oriented data model, a flexible declarative query language and support for persistent storage and sharing of data in a multi-user environment.

## Semantic optimization of biomolecular queries in object-oriented database

Karl Aberer, Klemens Hemm

Meeting on the Interconnection of Molecular Biology Databases, Cambridge, UK, 1995

Extended abstract

#### Contact:

Dr. Karl Aberer
GMD-IPSI
Dolivostrasse 15
D-64293 Darmstadt

E-mail: aberer@darmstadt.gmd.de

Phone: +49 6151 869 935 Fax: +49 6151 869 966



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# rotein-Ligand Interactions

Brian T. Luke, Ph.D.

btluke@aol.com

This area of investigation is being performed in collaboration with Dr. Jack Collins. The intent is to generate a suite of programs that can effectively screen a large database of compounds for potential substrates of an enzyme, given one or more X-ray or NMR structures of the enzyme. By effective screening, we mean that the programs should be able to rapidly screen each database structure and accurately determine the correct orientation of the ligand in the enzyme's binding site.

The first step in this process is to determine the binding site of the enzyme. This process is greatly simplified if the experimental structure contains a bound substrate. If not, a graphical examination of the enzyme can often suggest one or more regions that may act as binding sites. If multiple putative binding sites should be explored, they need to be treated individually in the steps given below.

A given binding site is selected by choosing a **seed** point that represents a Cartesian point within the binding pocket. If the experimental structure contains a bound ligand, this seed can simply be the average coordinate of the atoms in this molecule. Alternatively, the seed can be determined by averaging the coordinates of specific protein atoms that bracket the binding site.

Once a seed point has been determined, a grid of points is generated that "fills" the binding site. A grid-based procedure is used since it

greatly accelerates the process of orienting possible substrates within the binding pocket. Each grid point is denoted by its Cartesian coordinates and the partial electrostatic and nonbond/hydrogen-bond pseudo-energies for placing a substrate atom at that point. In addition, each grid point is denoted as either **hard** or **soft**. A hard point is sufficiently close to a protein atom to require evaluation of these pseudo-energy terms, while a soft grid point represents a region that is far enough away from any protein atom to make this evaluation unnecessary. This differentiation was included to allow for only a small region of this grid to extend into the solvent but let some of the ligand atoms extend well into the solvent, as is true for many ligands that are bound to certain enzymes.

The next step is to create a database of putative ligands. At present, the docking program treats all substrates as rigid structures. If the internal conformation of a particular substrate is not known, programs are available that let you use the Semi-Empirical Quantum Chemistry program Mopac7 to completely search the Potential Energy Surface of this molecule and build a database that contains the low-energy conformations of this substrate.

The search program then reads the grid points and searches through one or more databases for structures that fit within the cavity. The program uses a combination of an Evolutionary Search and an optimizer to find one or more good orientations of the structure within the cavity. When finished with a particular database, a selected number of optimal structures are written to disk in PDB-format.

If you have any questions or comments, or you would like any more information about the topics discussed above, please send me email.

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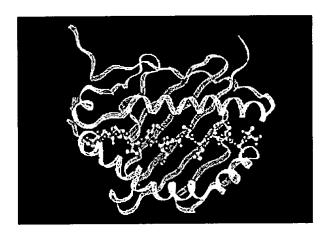
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- 7. Goto, S., Nishioka, T., and Kanehisa, M.; LIGAND: chemical database of enzyme reactions. Nucleic Acids Res. 28, 380-382 (2000). [UI:20063315]

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## **MHCPEP**

## A database of MHC binding peptides (v. 1.3)

MHCPEP is a database comprising over 13000 peptide sequences known to bind MHC molecules. Entries were compiled from published reports as well as from direct submissions of experimental data. Each entry contains the peptide sequence, its MHC specificity and, when available, experimental method, observed activity, binding affinity, source protein, anchor positions, and publication references.

This database is now (June 1998) static following the move of its compiler, Vladimir Brusic, to Singapore.

#### SRS browser

SRS database searches using Thure Etzold's browser at WEHI. Links with sequence databases and MHCPEP reference sources are available on-line.

#### • **FTP**

FTP access for downloading MHCPEP.

#### Citation reference:

V. Brusic, G. Rudy, A.P. Kyne and L.C. Harrison MHCPEP, a database of MHC-binding peptides: update 1997 Nucleic Acids Research, (1998), Vol. 26, No. 1, pp. 368-371 <u>DOWNLOAD</u>

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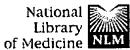
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Use of complete eluted peptide sequence data from HLA-DR and -DQ molecules to predict T cell epitopes, and the influence of the nonbinding terminal regions of ligands in epitope selection.

Godkin AJ, Davenport MP, Willis A, Jewell DP, Hill AV

Related Resources

Molecular Immunology Group, Institute of Molecular Medicine, John Radcliffe Hospital, Oxford, United Kingdom. agodkin@molbiol.ox.ac.uk

In diseases with a strong association with an HLA haplotype, identification of relevant T cell epitopes may allow alteration of the pathologic process. In this report we use a reverse immunogenetic approach to predict possible HLA class II-restricted T cell epitopes by using complete pool sequencing data. Data from HLA-DR2(B1\*1501), -DR3(B1\*0301), -DQ2(A1\*0501, B1\*0201), and -DQ8(A1\*0301, B1\*0302) alleles were used by a computer program that searches a candidate protein to predict ligands with a relatively high probability of being processed and presented. This approach successfully identified both known T cell epitopes and eluted single peptides from the parent protein. Furthermore, the program identified ligands from proteins in which the binding motif of the HLA molecule was unable to do so. When the information from the nonbinding N- and C-terminal regions in the pool sequence was removed, the ability to predict several ligands was markedly reduced, particularly for the HLA-DQ alleles. This suggests a possible role for these regions in determining ligands for HLA class II molecules. Thus, the use of complete eluted peptide sequence data offers a powerful approach to the prediction of HLA-DQ and -DR peptide ligands and T cell epitopes. Copyright 2000 John Wiley & Sons, Ltd.

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Investigator: Maria Pia Protti

Area: Immunology and Infectious Diseases

Unit: Tumor Immunology, Cancer Immunotherapy and Gene

Therapy Program

E-mail: m.protti@hsr.it

#### Specific immune response in human cancer

Tumor antigens recognized by T lymphocytes of neoplastic patients have been identified. Nonetheless spontaneous regression of human cancer is rare. The poor immunogenicity of human tumors in vivo is related to inefficient presentation of tumor antigens with tolerance induction in the immune system. Animal models have demonstrated that efficient immune response against transplanted tumors activate both CD8+ and CD4+ specific T lymphocytes. CD8+ T cells are the main effectors in killing MHC class I positive tumor cells. CD4+ T cells have a role in CD8+ T cell activation and effector functions indirectly by activation of macrophages and eosinophils and directly by killing MHC class II positive tumor cells. Recent evidence has demonstrated that tumor specific CD4+ T cells can become actively tolerized during progression of tumors in the absence of vaccination.

My research activities are mainly focused on: *i*) the *in vitro* evaluation of different systems to increase the immunogenicity of tumor antigens by proper presentation to the immune system and, *ii*) the study of the function of tumor specific T cells in patients during progression of the disease and during vaccination procedures.

Dendritic cells (DC) are professional antigen presenting cells that are believed to prime immune responses in vivo. We demonstrated that DC pulsed with tumor peptides obtained by acid treatment of whole melanoma cells stimulate CD8+ T cells able to specifically kill the tumor from which the peptides were extracted and HLA matched melanoma cells. Of particular interest, CD8+ T cells from melanoma patients, stimulated with tumor peptides obtained from HLA matched melanoma cells, killed the autologous tumors. We are currently characterizing also the CD4 response to these antigens. Preliminary results show that peptide pulsed DC stimulate an heterogeneous population of CD4+ T cells, secreting both Th1 and Th2 cytokines. These results implicate that tumor peptides obtained by acid treatment contain shared melanoma antigens and are the rationale for the development of a phase I/II vaccination protocol in melanoma patients with DC pulsed with tumor peptides extracted from allogenic HLA matched melanomas. We will evaluate the precursor frequency of tumor specific T cells during progression of the disease and before and after vaccination procedures. Moreover, since the study of CD8+T cell antigen specificity revealed that they recognize still unidentified shared melanoma antigens, we will use this strategy to identify new tumor associated antigens in human melanomas and renal cell carcinomas (in collaboration with C. Traversari).

We recently demonstrated that the use of TEPITOPE, a Windows TM application that enable the identification of MHC class II ligands binding in a promiscuous or allele-specific mode, may be a usefull tool for the screening of tumor antigen sequences naturally processed and recognized by CD4+ T cells. We identified different sequences on the MAGE-3 tumor antigen, that are recognized by CD4+ T cells from an healthy subject. Moreover, we showed that a MAGE-3 epitope was presented in association with MHC class II molecule at the surface of melanoma cells expressing HLA-DR molecules. We will use this strategy to characterize the epitope repertoire of different known tumor associated antigens, and the knowledge of sequences forming epitopes recognized by CD4+ T cells will allow the study of the function of tumor specific CD4+ T cells in neoplastic patients. To this aim, tumor specific CD4+ T cells will be purified from the blood or from metastatic sites of neoplastic patients by the use of soluble tetrameric MHC class II molecules containing the relevant epitope (produced by P. Dellabona and G. Casorati).

Moreover, the analysis of promiscuous sequences forming CD4 T cell epitopes will be used to validate the role as tumor associated antigens of new genes expressed by lung carcinoma, identified by DNA microarrays technology (in collaboration with J. Hammer and F. Sinigaglia) or new

genes expressed by mammary carcinoma, identified by the SEREX technology (in collaboartion with P. Nistico').

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Goto S, Nishioka T, Kanehisa M

Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan. goto@kuicr.kyoto-u.ac.jp

Related Resources

MOTIVATION: The existing molecular biology databases focus on the sequence and structural aspects of biological macromolecules, i.e. DNAs, RNAs and proteins. However, in order to understand the functional aspects. it is essential to computerize the interaction of these molecules. Furthermore, living cells contain additional molecules, such as metabolic compounds and metal ions, that may also be considered as parts of the basic building blocks of life, but are not well organized in public databases. LIGAND chemical database is our attempt to solve these problems, at least for enzymatic reactions. RESULTS: LIGAND consists of two sections: ENZYME and COMPOUND. The ENZYME section is an extension of previous studies (Suyama et al., Comput. Applic. Biosci., 9, 9-15, 1993), and it is a flat-file representation of 3303 enzymes and 2976 enzymatic reactions in the chemical equation format that can be parsed by machine. The COMPOUND section has been newly constructed for information on the nomenclature and chemical structures of compounds. It contains 5383 chemical compounds. Both ENZYME and COMPOUND entries contain rich cross-reference information, most of which is automatically generated by the DBGET/LinkDB system, thus providing the linkage between chemical and biological databases. LIGAND is updated daily, tightly coupled with the KEGG metabolic pathway database, and forms the basis for reconstruction and computation of pathways. AVAILABILITY: LIGAND can be accessed through the DBGET/LinkDB and KEGG systems in the Japanese GenomeNet database service via http://www.genome.ad.jp/. The flat-file format of the LIGAND database can be downloaded by anonymous FTP via ftp://kegg. genome.adjp/molecules/ligand/. CONTACT: goto@kuicr.kyoto-u.ac.jp; nishioka@scl.kyoto-u.ac.jp; kanehisa@kuicr.kyoto-u.ac.jp

#### MeSH Terms:

- Computational Biology\*
- Databases, Factual\*
- Enzymes\*
- Support, Non-U.S. Gov't

#### Substances:

• Enzymes

PMID: 9730924

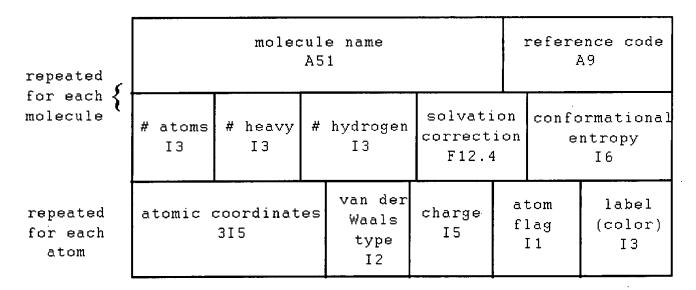


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## dock 3.5 ligand database format

In DOCK 3.5 the ligand database format has changed. The new ligand database format (a) handles a variable number of chemical labels, (b) incorporates fields for conformational entropy and solvation correction, although they are not currently used by DOCK, (c) includes all the fields of the version 3.0 database, and (d) has been reorganized so that all the information pertaining to a particular atom is grouped together. This new format takes a little more space than the 3.0 format (which omitted fields that were 0), but it is easier to understand.

After the header line (DOCK 3.5 ligand\_atoms) comes the color (label) table - a list of color names, one per line (format A30). Next come the ligands, in the format below. The label (color) for each ligand atom is simply an index into the color table (i.e. 1 for the first color listed, 2 for the second color listed, etc.).



For an example molecule, see here.

Curator: Daniel Gschwend <a href="mailto:schwend@cgl.ucsf.edu">schwend@cgl.ucsf.edu</a> (rev. 17 January 1996)



## **LIGAND**

## Database for enzymes, compounds, and reactions

### **Getting Started**

- LIGAND User Manual
- EC number table
- Statistics of ENZYME and COMPOUND entries (daily updated)
- Enzyme nomenclature by JCBN/NC-IUBMB

#### DBGET/LinkDB Search

Search enzymes and compounds

#### **KEGG Search**

- Enzyme classification by EC numbers
- Enzyme classification by PIR superfamilies
  - Enzyme classification by SCOP 3D-folds
  - Enzyme classification by PROSITE motifs
  - Compound classification
  - Periodic table

#### **Path Computation**

• Generate possible reaction pathways

#### **Anonymous FTP**

• <u>Download LIGAND database</u> (weekly updated)

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ligands.
    MHC class II binding epitope; CD4 T lymphocyte activation
ST
     antigen epitope; autoimmune disease infection cancer MHC epitope
IT
     Histocompatibility antigens
     RL: BPR (Biological process); BSU (Biological study, unclassified); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (HLA-DQ; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
ΙT
     Histocompatibility antigens
     RL: BPR (Biological process); BSU (Biological study, unclassified); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (HLA-DR4; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
IT
     Histocompatibility antigens
     RL: BPR (Biological process); BSU (Biological study, unclassified); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (HLA-DR; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
IT
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (IA-2, tyrosine phosphatase-like protein; peptide epitopes recognized
        by disease promoting CD4+ T lymphocytes for developing therapeutics and
        prophylactics)
ΙT
    Histocompatibility antigens
     RL: ARU (Analytical role, unclassified); BSU (Biological study,
     unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MHC (major histocompatibility
      complex), class II; peptide epitopes recognized by disease
        promoting CD4+ T lymphocytes for developing therapeutics and
        prophylactics)
ΙT
     Proteins, specific or class
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (SU (surface), receptor; peptide epitopes recognized by disease
        promoting CD4+ T lymphocytes for developing therapeutics and
        prophylactics)
IT
    DNA
     RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (altered peptide ligand-encoding; peptide epitopes recognized by
        disease promoting CD4+ T lymphocytes for developing therapeutics and
        prophylactics)
IT
    Ligands
    RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties);
     THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study);
    USES (Uses)
        (altered peptide; peptide epitopes recognized by disease promoting CD4+
        T lymphocytes for developing therapeutics and prophylactics)
IT
     Kidney, disease
        (antiglomerular basement membrane disease; peptide epitopes recognized
        by disease promoting CD4+ T lymphocytes for developing therapeutics and
        prophylactics)
IT
     T cell (lymphocyte)
        (auto-reactivity redn.; peptide epitopes recognized by disease
        promoting CD4+ T lymphocytes for developing therapeutics and
        prophylactics)
ΙT
    Antigens
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (autoantigens; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
IT
     Thyroid gland, disease
        (autoimmune thyroiditis; peptide epitopes recognized by disease
        promoting CD4+ T lymphocytes for developing therapeutics and
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prophylactics)

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Hepatitis
IT
        (autoimmune; peptide epitopes recognized by disease promoting CD4+ T
       lymphocytes for developing therapeutics and prophylactics)
TT
        (bacterial; peptide epitopes recognized by disease promoting CD4+ T
       lymphocytes for developing therapeutics and prophylactics)
IT
    Receptors
    RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (cell surface; peptide epitopes recognized by disease promoting CD4+ T
       lymphocytes for developing therapeutics and prophylactics)
ΙT
    Ovary, disease
        (failure, autoimmune premature; peptide epitopes recognized by disease
       promoting CD4+ T lymphocytes for developing therapeutics and
       prophylactics)
IT
    Parasite
        (infection; peptide epitopes recognized by disease promoting CD4+ T
       lymphocytes for developing therapeutics and prophylactics)
IT
    Diabetes mellitus
        (insulin-dependent; peptide epitopes recognized by disease promoting
       CD4+ T lymphocytes for developing therapeutics and prophylactics)
IT
    Pokeweed
    RL: BPR (Biological process); BSU (Biological study, unclassified); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (mitogen; peptide epitopes recognized by disease promoting CD4+ T
       lymphocytes for developing therapeutics and prophylactics)
IT
    Addison's disease
    Antigen-presenting cell
    Autoimmune disease
    B cell (lymphocyte)
    CD4-positive T cell
    Celiac disease
    Dendritic cell
    Graves' disease
    Infection
    Leprosy
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    Macrophage
    Mammal (Mammalia)
    Mitogens
    Monocyte
    Multiple sclerosis
    Myasthenia gravis
    Neoplasm
    Pathogen
    Pokeweed
    Rheumatoid arthritis
    Susceptibility (genetic)
    Vitiligo
        (peptide epitopes recognized by disease promoting CD4+ T lymphocytes
        for developing therapeutics and prophylactics)
TT
    Peptides, biological studies
    Proteins, general, biological studies
    RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic
    use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
        (peptide epitopes recognized by disease promoting CD4+ T lymphocytes
        for developing therapeutics and prophylactics)
IT
    Avidins
    RL: ARU (Analytical role, unclassified); BPR (Biological process); BSU
     (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical
     study); BIOL (Biological study); PROC (Process); USES (Uses)
        (peptide epitopes recognized by disease promoting CD4+ T lymphocytes
        for developing therapeutics and prophylactics)
IT
    Agglutinins and Lectins
    Antibodies
    Immunoglobulins
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RL: BPR (Biological process); BSU (Biological study, unclassified); THU

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(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (peptide epitopes recognized by disease promoting CD4+ T lymphocytes
        for developing therapeutics and prophylactics)
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (phogrin; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
    Mitogens
     RL: BPR (Biological process); BSU (Biological study, unclassified); THU
     (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
        (pokeweed; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
     Biliary tract
        (primary biliary cirrhosis; peptide epitopes recognized by disease
       promoting CD4+ T lymphocytes for developing therapeutics and
       prophylactics)
    Hypothyroidism
        (primary; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
    Connective tissue
        (scleroderma; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
    Lupus erythematosus
        (systemic; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
     Infection
        (viral; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
     79747-53-8, Tyrosine phosphatase
    RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (IA-2; peptide epitopes recognized by disease promoting CD4+ T
        lymphocytes for developing therapeutics and prophylactics)
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     study); BIOL (Biological study); PROC (Process); USES (Uses)
        (peptide epitopes recognized by disease promoting CD4+ T lymphocytes
        for developing therapeutics and prophylactics)
                       9004-10-8, Insulin, biological studies
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                                   9035-68-1, Proinsulin
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     Preproinsulin
    RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL
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        for developing therapeutics and prophylactics)
RE.CNT
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     An expressed protein tag (EPT) profile characteristic for a given cell,
AΒ
     the profile including a representation of at least ten different
     polypeptides expressed by the cell and bound by a given type of multi-
     ligand binding receptor; and computer-assisted manipulation of
     such a profile.
ST
     profiling cataloging protein tag
     Proteins, specific or class
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (E2 ubiquitin carrier; profiling and
        cataloging expressed protein tags)
ΙT
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (GRP78 (glucose-regulated protein, 78,000-mol-wt.); profiling and
        cataloging expressed protein tags)
ΙT
     Heat-shock proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (HSP 60; profiling and cataloging expressed protein tags)
ΙT
     Heat-shock proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (HSP 65; profiling and cataloging expressed protein tags)
IT
     Heat-shock proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (HSP 70; profiling and cataloging expressed protein tags)
IT
     Heat-shock proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (HSP 90; profiling and cataloging expressed protein tags)
IT
     Histocompatibility antigens
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (MHC (major histocompatibility antigen
      complex), class I, receptors; profiling and cataloging
        expressed protein tags)
```

```
IT
     Receptors
     RL: ANT (Analyte); ANST (Analytical study)
        (MHC class II; profiling and cataloging expressed protein
ΙT
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (Retention; profiling and cataloging expressed
     protein tags)
ΙT
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (Trafficking; profiling and cataloging expressed
     protein tags)
ΙT
     Information systems
        (data; profiling and cataloging expressed protein tags)
IT
     Glycophosphoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (endoplasmins; profiling and cataloging expressed protein tags)
     Proteins, specific or class
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (grp96; profiling and cataloging expressed protein tags)
IT
     Phosphoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (hsp 25; profiling and cataloging expressed protein tags)
IT
     Animal tissue culture
     Cell
     Computer application
     Databases
     Drugs
     Genetics
        (profiling and cataloging expressed protein tags)
     Peptides, biological studies
TT
     Proteins, general, biological studies
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (profiling and cataloging expressed protein tags)
     Calnexin
TT
     Calreticulin
     Chaperonins
    Ligands
    Receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (profiling and cataloging expressed protein tags)
ΙT
     37211-66-8, Mannosidase 74812-49-0, e3
    Ubiquitin ligase 83534-39-8, N-
     Glycanase 140879-24-9, Proteasome
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (profiling and cataloging expressed protein tags)
    ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2001 ACS
L53
     1998:12644 HCAPLUS
AN
DN
     128:87468
     The discovery and use of HLA-associated epitopes as drugs
TΙ
     Urban, Robert G.; Chicz, Roman M.; Hedley, Mary
ΑU
     Lynne
CS
     Pangaea Pharmaceuticals, Inc., Cambridge, MA, 02138, USA
     Crit. Rev. Immunol. (1997), 17(5 & 6), 387-397
SO
     CODEN: CCRIDE; ISSN: 1040-8401
PB
     Begell House, Inc.
     Journal; General Review
DT
LA
     English
CC
     15-0 (Immunochemistry)
     A review with 65 refs. MHC receptors "display" peptide
     fragments to T cells. These peptides are predominantly derived from
     proteins expressed within or ingested by the presenting cell. Since empty
     MHC mols. are highly unstable, peptide ligands are bound
     prior to MHC surface expression and the ensuing t1/2 off rates
```

are often on the order of days. It is the remarkable stability of MHC/peptide complexes, which provide the authors an opportunity to purify MHC mols. from infected, transfected, or antigen pulsed cells and subsequently identify the naturally processed peptides being presented. The stability of MHC/peptide complexes substantially reduces the potency of parenterally administered peptides in vivo. Using serial immuno-affinity chromatog. and mass spectrometry, naturally processed peptides can be identified. When these peptides are then encoded into nucleic acid and delivered parenterally, they are highly immunogenic. Application of these techniques to induce vigorous CTL responses will be discussed.

ST review HLA peptide epitope genetic immunization

IT Cytotoxic T cell

Epitopes

Immunotherapy

(characterization of HLA-assocd. peptides and their use in genetic immunization)

IT Peptides, biological studies

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(characterization of HLA-assocd. peptides and their use in genetic immunization)

IT HLA antigens

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (characterization of HLA-assocd. peptides and their use in genetic immunization)

IT Immunization

(genetic; characterization of HLA-assocd. peptides and their use in)

- L53 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2001 ACS
- AN 1997:736649 HCAPLUS
- DN 128:33490
- TI HLA-DP2: Self peptide sequences and binding properties
- AU Chicz, Roman M.; Graziano, Daniel F.; Trucco, Massimo; Strominger, Jack L.; Gorga, Joan C.
- CS Dep. of Molecular and Cellular Biology, Harvard University, Cambridge, MA, 02138, USA
- SO J. Immunol. (1997), 159(10), 4935-4942 CODEN: JOIMA3; ISSN: 0022-1767
- PB American Association of Immunologists
- DT Journal
- LA English
- CC 15-2 (Immunochemistry)
- Although self peptides bound to HLA-DQ and, esp., HLA-DR allotypes have AΒ been described in some detail, few ligands that bind to HLA-DP have been identified. Toward this aim, naturally processed peptides were isolated from immunoaffinity-purified HLA-DP2 mols. expressed in cultured B lymphocytes. The size distribution of the peptide repertoire is generally similar to those reported for self peptides bound to HLA-DR and HLA-DQ mols. Twelve peptides representing individual sequences including two nested sets were sequenced by mass spectrometry and/or N-terminal Edman anal. Source proteins included MHC mols. and other integral membrane proteins as well as secretory and serum proteins. No dominant amino acid markers suggestive of particular enzymic processing events were detected. Peptide specificity and affinity were examd. in binding assays using synthetic peptides and purified HLA-DP and HLA-DR mols. Anchor residues were tentatively assigned using alanine-substituted analogs of two self peptides. Some structural features of HLA-DP2 that may related to peptide binding are considered.
- ST HLA DP2 self peptide binding
- IT Structure-activity relationship
  - (HLA-DP2-binding; self peptide sequences and binding properties to HLA-DP2)
- IT B cell (lymphocyte)
  - (self peptide sequences and binding properties to HLA-DP2)

```
IT
     Autoantigens
     HLA-DP antigen
     RL: BPR (Biological process); PRP (Properties); BIOL (Biological study);
     PROC (Process)
        (self peptide sequences and binding properties to HLA-DP2)
     160665-35-0
                   199682-87-6
                                  199682-88-7
                                                 199682-89-8
                                                               199682-90-1
IT
                                  199682-93-4
                                                 199682-94-5
                                                               199682-95-6
     199682-91-2
                   199682-92-3
                   199682-97-8
                                  199682-98-9
                                                 199682-99-0
                                                               199683-01-7
     199682-96-7
                                                 199683-07-3
                                                               199683-08-4
                                  199683-06-2
     199683-04-0
                   199683-05-1
                                  199683-11-9
                                                 199683-12-0
                                                               199683-13-1
     199683-09-5
                   199683-10-8
                                                 199683-17-5
                                                               199683-18-6
     199683-14-2
                   199683-15-3
                                  199683-16-4
                                  199683-21-1
     199683-19-7
                   199683-20-0
     RL: BPR (Biological process); PRP (Properties); BIOL (Biological study);
     PROC (Process)
        (self peptide sequences and binding properties to HLA-DP2)
    ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2001 ACS
L53
AN
     1997:431951 HCAPLUS
     127:175083
DN
     Matrix-based prediction of MHC-binding peptides: the EpiMatrix
TΙ
     algorithm, reagent for HIV research
     Jesdale, Bill M.; Deocampo, Greg; Meisell, John; Beall, Jeff; Marinello,
ΑU
     Mark J.; Chicz, Roman M.; De Groot, Anne S.
     TB/HIV Research Laboratory, International Health Institute, Brown
CS
     University School of Medicine, Providence, RI, 02912, USA
     Vaccines 97: Mol. Approaches Control Infect. Dis., [Annu. Meet.], 14th
SO
     (1997), Meeting Date 1996, 57-64. Editor(s): Brown, Fred. Publisher: Cold
     Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y.
     CODEN: 64QNAJ
DT
     Conference
     English
LΑ
     15-2 (Immunochemistry)
CC
     Consistent and accurate detn. of peptides that bind to MHC mols.
AB
     is the first step in the identification of T-cell epitopes.
     particularly relevant for HIV research. Due to limitations of
     anchor-based \mbox{\it MHC-}\mbox{\it binding motifs, the TB/HIV} Research Lab. has
     developed a method of compiling information on peptides demonstrated to
     bind to \ensuremath{\mathbf{MHC}} mols. into an \ensuremath{\mathbf{MHC}}\text{-binding matrix}
     (EpiMatrix). The first trial of the EpiMatrix algorithm was to compare
     MHC ligand predictions for 67 proteins to known
     ligands.
     EpiMatrix algorithm HIV HLA peptide
ST
TT
     Human immunodeficiency virus
        (matrix-based prediction of MHC-binding peptides using the
        EpiMatrix algorithm, reagent for HIV research)
TΤ
     HLA antigens
     Peptides, biological studies
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (matrix-based prediction of MHC-binding peptides using the
        EpiMatrix algorithm, reagent for HIV research)
    ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2001 ACS
L53
AN
     1997:337927 HCAPLUS
DN
     127:16330
     An interactive web site providing major histocompatibility ligand
TΙ
     predictions: application to HIV research
     De Groot, Anne S.; Jesdale, Bill M.; Szu, Evan; Schafer, James R.;
ΑÜ
     Chicz, Roman M.; Deocampo, Greg
     TB/HIV Research Laboratory, Brown University School of Medicine,
CS
     Providence, RI, 02912, USA
     AIDS Res. Hum. Retroviruses (1997), 13(7), 529-531
SO
     CODEN: ARHRE7; ISSN: 0889-2229
PB
     Liebert
DT
     Journal
```

LA

CC

English

15-2 (Immunochemistry)

EpiMatrix/HIV, a tool that is currently available on the World Wide Web, AΒ enables researchers to screen HIV proteins for potential MHC ligands. We have performed a comparison of EpiMatrix predictions to 158 published allotype-specific HLA-assocd. peptides (MHC ligands) derived from 133 proteins. The top 10 ranked EpiMatrix predictions for each of the 158 HLA allotype-protein pairs were selected for comparison with these published ligands. EpiMatrix correctly identified 134 of 158 published ligands (85%). algorithm is now available for use by the HIV research community at the URL http://www.EpiMatrix.com/HIV. HIV peptide HLA antigen EpiMatrix STΙT Human immunodeficiency virus (interactive web site providing major histocompatibility ligand predictions and its application to HIV research) IT HLA antigens Peptides, biological studies RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (interactive web site providing major histocompatibility ligand predictions and its application to HIV research) ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2001 ACS L53 1997:46816 HCAPLUS ΑN DN 126:116631 Genetic modulation of antigen presentation TIΑU Hedley, Mary Lynne Department Molecular & Cellular Biology, Harvard University, Cambridge, CS MA, USA SO MHC Mol.: Expression, Assem. Funct. (1996), 281-294. Editor(s): Urban, Robert G.; Chicz, Roman M. Publisher: Landes, Austin, Tex. CODEN: 63WLA2 Conference; General Review DT LA English 15-0 (Immunochemistry) CC A review with 92 refs. exploring how the flourishing field of gene therapy AB and recent advances in the understanding of MHC mol./peptide ligand interactions can be coalesced into a technol. that has the potential to become the method of choice for treating such diverse conditions as cancer, infection, and autoimmunity. ST gene therapy antigen presentation review ITGene therapy (genetic modulation of antigen presentation) IT Antigens RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (genetic modulation of antigen presentation) ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2001 ACS L53 1997:46812 HCAPLUS AN DN 126:102624 ΤI Cooperative recognition of MHC class II: peptide complexes by the T cell receptor and CD4 ΑU Vignali, Dario A. A. Department Immunology, St. Judes Children's Research Hospital, Memphis, CS TN, USA MHC Mol.: Expression, Assem. Funct. (1996), 207-228. Editor(s): SO Urban, Robert G.; Chicz, Roman M. Publisher: Landes, Austin, Tex. CODEN: 63WLA2 DT Conference; General Review English LA CC 15-0 (Immunochemistry) A review, with 158 refs., discussing TCR recognition of MHC class II:peptide complexes, TCR recognition of MHC class II-bound peptide flanking residues, initiation of TCR signaling, modulating T cell responses with altered peptide ligands, CD4 binding to MHC class II mols., and CD4 interaction with the

TCR:CD3 complex.

ST

review MHC peptide TCR receptor CD4

```
CD4 (antigen)
ΙT
     Class II MHC antigens
     Peptides, biological studies
     TCR (T-cell receptors)
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (cooperative recognition of MHC class II:peptide complexes by
        T cell receptor and CD4)
    ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2001 ACS
L53
     1997:46811 HCAPLUS
AN
DN
     126:102623
     Role of ligand density in T cell reactions
ΤI
     Tsomides, Theodore J.
ΑIJ
     Center Cancer Research, Massachusetts Institute Technology, Cambridge, MA,
CS
     USA
     MHC Mol.: Expression, Assem. Funct. (1996), 191-206. Editor(s):
SO
     Urban, Robert G.; Chicz, Roman M. Publisher: Landes, Austin, Tex.
     CODEN: 63WLA2
DT
     Conference; General Review
LA
     English
CC
     15-0 (Immunochemistry)
     A review, with 87 refs., discussing the study of peptides recognized by
AB
     CD8+ cytotoxic T lymphocytes, the efficacy of CTL-mediated target cell
     lysis, and the role of ligand d.
     review cytotoxic T lymphocyte ligand density
ST
     Cytotoxic T cell
IT
        (role of ligand d. in T cell reactions)
ΙT
     Peptides, biological studies
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (role of ligand d. in T cell reactions)
    ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2001 ACS
L53
     1995:677012 HCAPLUS
AN
     123:81197
DN
     Naturally processed peptides from two disease-resistance-associated
TΙ
     HLA-DR13 alleles show related sequence motifs and the effects of the
     dimorphism at position 86 of the HLA-DR.beta. chain
     Davenport, Miles P.; Quinn, Cheryl L.; Chicz, Roman M.; Green,
ΑU
     Brian N.; Willis, Anthony C.; Lane, William S.; Bell, John I.; Hill,
     Adrian V. S.
     Mol. Immunol. Group, Univ. Oxford, Oxford, OX3 9DU, UK
CS
     Proc. Natl. Acad. Sci. U. S. A. (1995), 92(14), 6567-71
SO
     CODEN: PNASA6; ISSN: 0027-8424
DT
     Journal
     English
LA
CC
     15-2 (Immunochemistry)
     HLA-DR13 has been assocd. with resistance to two major infectious diseases
AB
                 To investigate the peptide binding specificity of two HLA-DR13
     mols. and the effects of the Gly/Val dimorphism at position 86 of the
     HLA-DR.beta. chain on natural peptide ligands, these peptides
     were acid-eluted from immunoaffinity-purified HLA-DRB1*1301 and
     -DRB1*1302, mols. that differ only at this position. The eluted peptides
     were subjected to pool sequencing or individual peptide sequencing by
     tandem MS or Edman microsequencing. Sequences were obtained for 23
     peptides from nine source proteins. Three pool sequences for each allele
     and the sequences of individual peptides were used to define binding
     motifs for each allele. Binding specificities varied only at the primary
     hydrophobic anchor residue, the differences being a preference for the
     arom. amino acids Tyr and Phe in DRB1*1302 and a preference for Val in
                Synthetic analogs of the eluted peptides showed allele
     specificity in their binding to purified HLA-DR, and Ala-substituted
     peptides were used to identify the primary anchor residues for binding.
```

The failure of some peptides eluted from DRB1\*1302 (those that use arom.

amino acids as primary anchors) to bind to DRB1\*1301 confirmed the different preferences for peptide anchor residues conferred by the Gly .fwdarw. Val change at position 86. These data suggest a mol. basis for

the differential assocns. of HLA-DRB1\*1301 and DRB1\*1302 with resistance to severe malaria and clearance of hepatitis B virus infection. HLA DR13 peptide sequence motif; polymorphism HLA DR13 peptide binding ST Histocompatibility antigens IT RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (HLA-DR13, human; sequence motif for peptide binding to) Molecular structure-biological activity relationship IT (histocompatibility antigen HLA-DR13-binding; of peptides) IT Molecular association (of naturally processed peptides to human HLA-DR13 histocompatibility antigen) IT Protein sequences (of peptides binding human HLA-DR13 histocompatibility antigen) Peptides, biological studies IT RL: BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (sequence motif for binding to human HLA-DR13 histocompatibility antigen) IT Malaria (sequence motif for peptide binding to human HLA-DR13 histocompatibility antigen in relation to resistance to) ΙT Hepatitis (B, sequence motif for peptide binding to human HLA-DR13 histocompatibility antigen in relation to resistance to) ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2001 ACS L53 1994:296063 HCAPLUS ΑN DN 120:296063 TIAnalysis of MHC-presented peptides: applications in autoimmunity and vaccine development Chicz, Roman M.; Urban, Robert G. ΑU Biol. Lab., Harvard Univ., Cambridge, MA, 02138, USA CS Immunol. Today (1994), 15(4), 155-60 SO CODEN: IMTOD8; ISSN: 0167-4919 DT Journal; General Review LA English 15-0 (Immunochemistry) CC A review, with 45 refs., describing the features of peptides bound to AΒ MHC mols. and the mechanism by which these surfaces proteins bind diverse peptide ligands with high affinity. In addn., the application of new technologies to the identification of MHC -assocd. peptides is discussed. MHC complex peptide analysis review; autoimmunity ST histocompatibility complex peptide review; vaccine histocompatibility complex peptide review IT Peptides, biological studies RL: BIOL (Biological study) (antigenic, MHC complex-bound, anal. of, autoimmunity and vaccine development in relation to) Histocompatibility antigens IT RL: BIOL (Biological study) (peptides bound to, anal. of, autoimmunity and vaccine development in relation to) ΙT Antigens RL: BIOL (Biological study) (peptides of, MHC complex-bound, anal. of, autoimmunity and vaccine development in relation to) IT Autoimmune disease Vaccines (peptides presented by histocompatibility complexes in relation to) ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2001 ACS L53 1989:453527 HCAPLUS AN DN 111:53527 Immobilized-metal affinity and hydroxyapatite chromatography of ΤI

```
genetically engineered subtilisin
     Chicz, Roman M.; Regnier, Fred E.
ΑU
CS
     Dep. Biochem., Purdue Univ., West Lafayette, IN, 47907, USA
SO
     Anal. Chem. (1989), 61(15), 1742-9
     CODEN: ANCHAM; ISSN: 0003-2700
DT
     Journal
     English
LA
CC
     9-3 (Biochemical Methods)
     Section cross-reference(s): 6, 7, 66
     High-performance immobilized-metal affinity and hydroxyapatite chromatog.
AB
     were employed to investigate the engineered subtilisin S1 binding site
     microenvironment. Although these methods are classified as affinity
     techniques, unlike traditional affinity columns, both are capable of
     probing the entire surface of a mol. The metal chelate study employed
     gradient elution to assemble retention maps for a wide range of
     mobile-phase pH. Resoln. of single substitution variants was achieved at
     the optimum mobile-phase pH. A total of 4 metals were applied sep. to the
     metal chelate column to investigate ligand specificity with
     respect to protein retention. Hydroxyapatite
     chromatog., albeit an established technique, has only recently been
     developed as a HPLC method. Gradient elution sepns. were performed to
     det. selectivity. Immobilized-metal affinity chromatog. was a more
     effective method for the sepn. of site-specific variants.
ST
     hydroxyapatite HPLC subtilisin variant; immobilized metal affinity
     chromatog protein; subtilisin variant sepn HPLC; recombinant DNA protein
     prodn sepn; liq chromatog protein variant
     Genetic engineering
TΨ
        (protein prodn. by, protein variants sepn. by immobilized metal
        affinity and hydroxyapatite chromatog. in relation to)
     Proteins, specific or class
TΤ
     RL: PROC (Process)
        (analogs, sepn. of, variance of, by immobilized metal affinity and
        hydroxyapatite chromatog.)
     Chromatography, column and liquid
IT
        (high-performance, of protein variants from genetic engineering, on
        hydroxyapatite)
IT
     Chromatography, column and liquid
        (high-performance, affinity, immobilized metal in, of protein variants
        from genetic engineering)
ΙT
     9014-01-1, Subtilisin
     RL: PROC (Process)
        (sepn. of, variance of genetically engineered, by immobilized metal
        affinity and hydroxyapatite chromatog.)
                                                  101707-35-1, TSK-Gel Chelate
IT
     1306-06-5, Hydroxylapatite (Ca5(OH)(PO4)3)
     5PW
     RL: ANST (Analytical study)
        (stationary phase, in protein variant sepn. by HPLC)
     7440-50-8, Copper, analysis
     RL: ANST (Analytical study)
        (subtilisin interaction with, in immobilized metal chromatog.)
=> fil biosis
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CC

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L102 ANSWER 1 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
     1998:107458 BIOSIS
AN
DN
     PREV199800107458
     Analysis of peptides eluted from diabetes-susceptibility class
ΤI
     II MHC molecules, purified from antigen presenting cells pulsed
     with IA-2ic.
     Peakman, M. (1); Stevens, E. J.; Trucco, M.; Chicz, R. M.;
ΑU
     Gorga, J. C.
     (1) Dep. Immunol., King's Coll. Sch. Med. Dentistry, London SE5 9PJ UK
CS
     Immunology, (Dec., 1997) Vol. 92, No. SUPPL. 1, pp. 114.
SO
     Meeting Info.: 5th Annual Congress of the British Society for
     Immunology Brighton, England, UK December 2-5, 1997 British Society
     for Immunology
      ISSN: 0019-2805.
DT
     Conference
LA
     English
     Immunology and Immunochemistry - Immunopathology, Tissue Immunology
CC
     *34508
     Biochemical Studies - Proteins, Peptides and Amino Acids
     Metabolism - Metabolic Disorders *13020
     Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
     Endocrine System - Pancreas *17008
     General Biology - Symposia, Transactions and Proceedings of
     Conferences, Congresses, Review Annuals *00520
ΙT
     Major Concepts
        Blood and Lymphatics (Transport and Circulation); Endocrine System
        (Chemical Coordination and Homeostasis); Immune System (Chemical
        Coordination and Homeostasis)
     Parts, Structures, & Systems of Organisms
IT
        antigen-presenting cells: immune system; T cell: blood and lymphatics,
        immune system
     Chemicals & Biochemicals
IT
        major histocompatibility complex class II: molecules;
      peptides; HLA-DR4; IA-2ic autoantigen: native diabetes-related
        autoantigen
     Miscellaneous Descriptors
ΙT
        diabetes susceptibility; Meeting Abstract;
     Meeting Poster
L102 ANSWER 2 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
AN
     1997:465333 BIOSIS
     PREV199799764536
DN
     Matrix-based prediction of MHC-binding peptides: The
ΤI
     EpiMatrix algorithm, reagent for HIV research.
     Jesdale, Bill M. (1); Deocampo, Greg; Meisell, John; Beall, Jeff;
ΑIJ
     Marinello, Mark J.; Chicz, Roman M.; De Groot, Anne S. (1)
     (1) TB/HIV Res. Lab., International Health Inst., Brown Univ. Sch. Med.,
CS
     Providence, RI 02912 USA
     Brown, F. [Editor]; Burton, D. [Editor]; Doherty, P. [Editor]; Mekalanos,
SO
     J. [Editor]. Vaccines (Cold Spring Harbor), (1997) Vol. 97, pp. 57-64.
     Vaccines (Cold Spring Harbor); Molecular approaches to the control of
     infectious diseases.
     Publisher: Cold Spring Harbor Laboratory Press 10 Skyline Drive,
     Plainview, New York 11803, USA.
     Meeting Info.: Fourteenth Annual Meeting on Modern Approaches to the
     Control of Infectious Diseases Cold Spring Harbor, New York, USA
     September 9-13, 1996
     ISSN: 0899-4056. ISBN: 0-87969-516-1.
DT
     Book; Conference
LA
     English
```

Cytology and Cytochemistry - Animal \*02506

```
Biochemical Studies - Proteins, Peptides and Amino Acids *10064
     Biochemical Studies - Carbohydrates *10068
     Biophysics - Molecular Properties and Macromolecules *10506
     Biophysics - Membrane Phenomena *10508
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
    Virology - Animal Host Viruses *33506
    Medical and Clinical Microbiology - Virology *36006
BC
        00500
    Animalia - Unspecified *33000
    Major Concepts
IT
       Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport
       and Circulation); Cell Biology; Infection; Membranes (Cell Biology);
       Microbiology
IT
     Sequence Data
       amino acid sequence
IT
    Miscellaneous Descriptors
       BIOCHEMISTRY AND BIOPHYSICS; BLOOD AND LYMPHATICS; EPIMATRIX ALGORITHM;
       HIV INFECTION; HOST; HUMAN IMMUNODEFICIENCY VIRUS INFECTION; IMMUNE
       SYSTEM; INFECTION; MAJOR HISTOCOMPATIBILITY COMPLEX
       MOLECULES; MAJOR HISTOCOMPATIBILITY COMPLEX-BINDING
     PEPTIDES; MATRIX-BASED PREDICTION; PATHOGEN; RESEARCH; T CELLS;
       VIRAL DISEASE
ORGN Super Taxa
       Animalia - Unspecified: Animalia; Retroviridae: Viruses
ORGN Organism Name
       animal (Animalia - Unspecified); human immunodeficiency virus
        (Retroviridae); organisms (Organisms - Unspecified); Animalia (Animalia
        - Unspecified); HIV (Retroviridae)
ORGN Organism Superterms
       animals; microorganisms; viruses
L102 ANSWER 3 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
ΑN
    1996:156039 BIOSIS
    PREV199698728174
DN
    Crystallographic analysis of endogenous peptides associated with
TI
    HLA-DR1 suggests a common, polyproline II-like conformation for bound
     Jardetzky, Theodore S.; Brown, Jerry H.; Gorga, Joan C.; Stern, Lawrence
ΑU
     J.; Urban, Robert G.; Strominger, Jack L.; Wiley, Don C. (1)
     (1) Dep. Mol. Cellular Biol., Harvard Univ., 7 Divinity Ave., Cambridge,
CS
    MA 02138 USA
    Proceedings of the National Academy of Sciences of the United States
SO
    of America, (1996) Vol. 93, No. 2, pp. 734-738.
     ISSN: 0027-8424.
DT
    Article
    English
LA
    The structure of the human major histocompatibility complex (
AB
    MHC) class II molecule HLA-DR1 derived from the human
     lymphoblastoid cell line LG-2 has been determined in a complex with the
     Staphylococcus aureus enterotoxin B superantigen. The HLA-DR1 molecule
     contains a mixture of endogenous peptides derived from cellular
     or serum proteins bound in the antigen-binding site, which
     copurify with the class II molecule. Continuous electron density for 13
     amino acid residues is observed in the MHC peptide
     -binding site, suggesting that this is the core length of peptide
     that forms common interactions with the MHC molecule. Electron
     density is also observed for side chains of the endogenous
    peptides. The electron density corresponding to peptide
     side chains that interact with the DR1-binding site is more clearly
     defined than the electron density that extends out of the binding site.
     The regions of the endogenous peptides that interact with DR1
     are therefore either more restricted in conformation or sequence than the
    peptide side chains or amino acids that project out of the
    peptide-binding site. The hydrogen-bond interactions and
     conformation of a peptide model built into the electron density
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are similar to other HLA-DR-peptide structures. The bound
     peptides assume a regular conformation that is similar to a
     polyproline type II helix. The side-chain pockets and conserved asparagine
     residues of the DR1 molecule are well-positioned to interact with
     peptides in the polyproline type II conformation and may restrict
     the range of acceptable peptide conformations.
     Microscopy Techniques - Electron Microscopy
     Genetics and Cytogenetics - Human *03508
     Biochemical Studies - Proteins, Peptides and Amino Acids *10064
     Biophysics - Molecular Properties and Macromolecules *10506
     Metabolism - Proteins, Peptides and Amino Acids *13012
     Digestive System - Pathology *14006
     Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
     Toxicology - General; Methods and Experimental
                                                      22501
     Physiology and Biochemistry of Bacteria
     Immunology and Immunochemistry - General; Methods
                                                         34502
     Immunology and Immunochemistry - Bacterial, Viral and Fungal
     Immunology and Immunochemistry - Immunopathology, Tissue Immunology
     *34508
     Medical and Clinical Microbiology - Bacteriology *36002
BC
     Micrococcaceae
                       07702
     Hominidae *86215
ΙT
     Major Concepts
        Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport
        and Circulation); Clinical Immunology (Human Medicine, Medical
        Sciences); Gastroenterology (Human Medicine, Medical Sciences);
        Genetics; Immune System (Chemical Coordination and Homeostasis);
        Infection; Metabolism
     Chemicals & Biochemicals
IT
        POLYPROLINE II
IT
     Sequence Data
        molecular sequence data; peptide sequence
ΙT
     Miscellaneous Descriptors
        ELECTRON DENSITY; ENTEROTOXIN SUPERANTIGEN; HUMAN LG-2 LYMPHOBLASTOID
        CELLS; IMMUNE RESPONSE; MAJOR HISTOCOMPATIBILITY COMPLEX
ORGN Super Taxa
        Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia;
        Micrococcaceae: Eubacteria, Bacteria
ORGN Organism Name
        Hominidae (Hominidae); Staphylococcus aureus (Micrococcaceae)
ORGN Organism Superterms
        animals; bacteria; chordates; eubacteria; humans; mammals;
        microorganisms; primates; vertebrates
RN
     26915-61-7 (POLYPROLINE II)
L102 ANSWER 4 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
     1995:384847 BIOSIS
AN
DN
     PREV199598399147
     Direct binding of the Mtv 7 superantigen (Mls-1) to MHC class II
ΤI
     molecules.
ΑU
     Hsu, P. (1); Mottershead, D. G. (1); Urban, R. G.; Strominger,
     J. L.; Huber, B. T. (1)
CS
     (1) Tufts Univ. Sch. Med., Boston, MA USA
SO
     9TH INTERNATIONAL CONGRESS OF IMMUNOLOGY.. (1995) pp. 716. The
     9th International Congress of Immunology.
     Publisher: 9th International Congress of Immunology San
     Francisco, California, USA.
     Meeting Info.: Meeting Sponsored by the American Association of
     Immunologists and the International Union of Immunological Societies
     San Francisco, California, USA July 23-29, 1995
DT
     Conference
LA
     English
     General Biology - Symposia, Transactions and Proceedings of
CC
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Conferences, Congresses, Review Annuals

BC

IT

IT

ΑN DN

TI

ΑIJ

CS

SO

DΤ T.A

CC

IT

IT

Retroviridae: Viruses

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Biochemical Studies - Proteins, Peptides and Amino Acids
                                                                10064
     Biochemical Studies - Carbohydrates
                                           10068
     Biophysics - Molecular Properties and Macromolecules *10506
     Virology - Animal Host Viruses *33506
     Immunology and Immunochemistry - Bacterial, Viral and Fungal *34504
     Medical and Clinical Microbiology - Virology *36006
     Retroviridae
                     02623
     Hominidae
                 86215
             *86375
     Muridae
     Major Concepts
        Biochemistry and Molecular Biophysics; Immune System (Chemical
        Coordination and Homeostasis); Infection; Microbiology
     Miscellaneous Descriptors
        BINDING SITE; MAJOR HISTOCOMPATIBILITY COMPLEX;
     MEETING ABSTRACT; STRUCTURE
ORGN Super Taxa
        Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia; Muridae:
        Rodentia, Mammalia, Vertebrata, Chordata, Animalia; Retroviridae:
        Viruses
ORGN Organism Name
        human (Hominidae); murine mammary tumor virus (Retroviridae); Muridae
        (Muridae)
ORGN Organism Superterms
        animals; chordates; humans; mammals; microorganisms; nonhuman mammals;
        nonhuman vertebrates; primates; rodents; vertebrates; viruses
L102 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
     1995:282816 BIOSIS
     PREV199598297116
     HLA-DR immunization protects macaques from challenge with SIV propagated
     in human cells but not macaque cells.
     Arthur, Larry O. (1); Bess., Julian W., Jr. (1); Henderson, Louis E. (1);
     Urban, Robert; Mann, Dean; Benveniste, Raoul E.
     (1) AIDS Vaccine Prog., PRI/DynCorp, Frederick, MD 21702 USA
     Journal of Cellular Biochemistry Supplement, (1995) Vol. 0, No. 21B, pp.
     182.
     Meeting Info.: Keystone Symposium on HIV Pathogenesis Keystone,
     Colorado, USA April 17-23, 1995
     ISSN: 0733-1959.
     Conference
     English
     General Biology - Symposia, Transactions and Proceedings of
     Conferences, Congresses, Review Annuals
     Cytology and Cytochemistry - Animal
     Cytology and Cytochemistry - Human
                                          02508
     Biochemical Studies - Proteins, Peptides and Amino Acids
     Pathology, General and Miscellaneous - Therapy
                                                       12512
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
     Virology - Animal Host Viruses
                                      33506
     Immunology and Immunochemistry - Immunopathology, Tissue Immunology
     *34508
     Medical and Clinical Microbiology - Virology *36006
     Retroviridae
                     02623
     Cercopithecidae
                       86205
     Hominidae *86215
     Major Concepts
        Blood and Lymphatics (Transport and Circulation); Clinical Immunology
        (Human Medicine, Medical Sciences); Infection
     Miscellaneous Descriptors
        MAJOR HISTOCOMPATIBILITY COMPLEX; MEETING
      ABSTRACT
ORGN Super Taxa
        Cercopithecidae: Primates, Mammalia, Vertebrata, Chordata, Animalia;
        Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia;
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ORGN Organism Name
        simian immunodeficiency virus (Retroviridae); Cercopithecidae
        (Cercopithecidae); Hominidae (Hominidae)
ORGN Organism Superterms
        animals; chordates; humans; mammals; microorganisms; nonhuman mammals;
        nonhuman primates; nonhuman vertebrates; primates; vertebrates; viruses
L102 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
     1995:35268 BIOSIS
AN
     PREV199598049568
DN
     Assembly and peptide binding of major
TI
    histocompatibility complex class II heterodimers in an in vitro
     translation system.
     Hedley, M. L.; Urban, R. G.; Strominger, J. L. (1)
ΑÜ
     (1) Dep. Biochem. and Mol. Biol., Harvard Univ., 7 Divinity Ave.,
CS
     Cambridge, MA 02138 USA
     Proceedings of the National Academy of Sciences of the United States
SO
     of America, (1994) Vol. 91, No. 22, pp. 10479-10483.
     ISSN: 0027-8424.
     Article
DT
    English
LA
     In vitro transcription/translation of HLA-DR1 cDNAs in the presence of
AB
     microsomal membranes was used to study the association of major
    histocompatibility complex class II molecules with peptide
     and invariant chain (Ii) in the endoplasmic reticulum (ER). HLA-DR-alpha
     and HLA-DR-beta subunits assembled into SDS-unstable heterodimers in the
     absence of exogenous peptide. The inclusion of synthetic
     peptides during the alpha/beta assembly process promoted
     their conversion to SDS-resistant heterodimers. Addition of Ii RNA during
     the translation of HLA-DR-alpha and HLA-DR-beta RNAs resulted in the
     formation of alpha/beta/Ii complexes. Peptide binding by class
     II molecules was detected even when excess Ii was present during
     alpha/beta assembly. These findings indicate that
     peptides can bind alpha/beta heterodimers in the ER
     microenvironment and suggest that peptides derived from
     cytosolic proteins that are presented by class II molecules at
     the cell surface may have bound to HLA-DR in the ER.
CC
     Cytology and Cytochemistry - Animal
                                            02506
     Replication, Transcription, Translation *10300
     Biophysics - Membrane Phenomena *10508
     Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies *15004
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
     In Vitro Studies, Cellular and Subcellular *32600
     Immunology and Immunochemistry - General; Methods *34502
     Animalia - Unspecified *33000
BC.
    Major Concepts
ΙT
        Blood and Lymphatics (Transport and Circulation); Cell Biology; Immune
        System (Chemical Coordination and Homeostasis); Membranes (Cell
        Biology); Molecular Genetics (Biochemistry and Molecular Biophysics)
    Miscellaneous Descriptors
IT
        CELL SURFACE; HLA; RNA; TRANSCRIPTION
ORGN Super Taxa
        Animalia - Unspecified: Animalia
ORGN Organism Name
        Animalia (Animalia - Unspecified)
ORGN Organism Superterms
        animals
L102 ANSWER 7 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
ΑN
     1994:326069 BIOSIS
DN
     PREV199497339069
     The effect of pH on HLA-DR1 prebound self-peptides.
TI
ΑU
     Urban, Robert G.; Chicz, Roman M.; Strominger, Jack L.
     Harvard Univ., Dep. Biochem. and Mol. Biol., Cambridge, MA 02138 USA Journal of Cellular Biochemistry Supplement, (1994) Vol. 0, No. 18D, pp.
CS
SO
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294.

Meeting Info.: Keystone Symposium on Lymphocyte Activation Keystone, Colorado, USA April 10-17, 1994 ISSN: 0733-1959. DT Conference English LA CC General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals Cytology and Cytochemistry - Human \*02508 Genetics and Cytogenetics - Human \*03508 Biochemical Methods - Proteins, Peptides and Amino Acids \*10054 Biochemical Methods - Carbohydrates 10058 Biochemical Studies - Proteins, Peptides and Amino Acids Biochemical Studies - Carbohydrates \*10068 Biophysics - Molecular Properties and Macromolecules \*10506 Biophysics - Membrane Phenomena \*10508 Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies 15004 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and Reticuloendothelial System \*15008 Immunology and Immunochemistry - General; Methods \*34502 Immunology and Immunochemistry - Immunopathology, Tissue Immunology \*34508 BC Hominidae \*86215 ΙT Major Concepts Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Cell Biology; Clinical Immunology (Human Medicine, Medical Sciences); Genetics; Immune System (Chemical Coordination and Homeostasis); Membranes (Cell Biology); Methods and Techniques IT Miscellaneous Descriptors IN-VITRO PEPTIDE EXCHANGE; LYMPHOCYTE ACTIVATION; MAJOR HISTOCOMPATIBILITY COMPLEX CLASS II MOLECULE RECYCLING; MEETING ABSTRACT; MEETING POSTER ORGN Super Taxa Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia ORGN Organism Name human (Hominidae) ORGN Organism Superterms animals; chordates; humans; mammals; primates; vertebrates L102 ANSWER 8 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS AN 1994:326052 BIOSIS DN PREV199497339052 Assembly of class II heterodimers in vitro. TΙ Hedley, Mary Lynne; Urban, Robert G.; Strominger, Jack ΑU Harvard Univ., Dep. Biochem. and Mol. Biol., Cambridge, MA 02138 USA CS Journal of Cellular Biochemistry Supplement, (1994) Vol. 0, No. 18D, pp. SO Meeting Info.: Keystone Symposium on Lymphocyte Activation Keystone, Colorado, USA April 10-17, 1994 ISSN: 0733-1959. DΤ Conference LA English General Biology - Symposia, Transactions and Proceedings of CC Conferences, Congresses, Review Annuals Cytology and Cytochemistry - Human \*02508 Genetics and Cytogenetics - Human \*03508 Biochemical Methods - Nucleic Acids, Purines and Pyrimidines Biochemical Methods - Proteins, Peptides and Amino Acids \*10054 Biochemical Studies - Nucleic Acids, Purines and Pyrimidines \*10062 Biochemical Studies - Proteins, Peptides and Amino Acids \*10064 Biochemical Studies - Carbohydrates \*10068 Biophysics - General Biophysical Techniques 10504 Biophysics - Molecular Properties and Macromolecules \*10506 Biophysics - Membrane Phenomena \*10508 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and

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LA

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Biophysics - Membrane Phenomena

Reticuloendothelial System \*15008 Developmental Biology - Embryology - Morphogenesis, General \*25508 In Vitro Studies, Cellular and Subcellular 32600 Immunology and Immunochemistry - Immunopathology, Tissue Immunology \*34508 Hominidae \*86215 Major Concepts Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Cell Biology; Clinical Immunology (Human Medicine, Medical Sciences); Development; Genetics; Membranes (Cell Biology); Methods and Techniques Miscellaneous Descriptors DR1 HETERODIMER/INVARIANT CHAIN COMPLEX; ENDOPLASMIC RETICULUM; IN-VITRO; LYMPHOCYTE ACTIVATION; MAJOR HISTOCOMPATIBILITY COMPLEX CLASS II; MEETING ABSTRACT; MEETING POSTER ORGN Super Taxa Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia ORGN Organism Name human (Hominidae) ORGN Organism Superterms animals; chordates; humans; mammals; primates; vertebrates L102 ANSWER 9 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS 1994:177866 BIOSIS PREV199497190866 A subset of HLA-B27 molecules contains peptides much longer than Urban, Robert G. (1); Chicz, Roman M. (1); Lane, William S.; Strominger, Jack L. (1); Rehm, Armin; Kenter, Marcel J. H.; Uytdehaag, Fons G. C. M.; Ploegh, Hidde; Uchanska-Ziegler, Barbara; Ziegler, Andreas (1) Dep. Biochem. Mol. Biol., Harvard Univ., Cambridge, MA 02138 USA Proceedings of the National Academy of Sciences of the United States of America, (1994) Vol. 91, No. 4, pp. 1534-1538. ISSN: 0027-8424. Article English An unusual monoclonal antibody (MARB4) directed against HLA-B27 that reacts with only apprxeq 5-20% of the cell surface HLA-B27 was used for large-scale purification of these molecules. Subsequent mass spectrometry of HLA-B27 bound peptides showed that the minor MARB4-reactive population contained peptides primarily from 900 to 4000 Da in size (apprxeq 8-33 amino acid residues), whereas the major HLA-B27 population contained peptides in the mass range of 900-1400 Da ( apprxeq 8-12 amino acid residues). Thus, a subset of HLA-B27 molecules binds to peptides much longer than nonamers. Typical HLA-B27-binding peptides contain arginine in position 2. Further analysis by Edman sequencing of the pooled bound peptides revealed that the major population contained substantial amounts of arginine at positions 1 and 9 (40-50%) and exclusively arginine at position 2, as expected. The minor population of peptides also contained detectable amounts of arginine at these positions, but at the level of only apprxeq 10%; no marked enrichment at any position was observed. These long HLA-B27-bound peptides could represent either intermediates in the formation of nonamers or adventitiously bound peptides. Lastly, in the TAP2 mutant cell line BM36.1 transfected with HLA-B\*2705, MARB4-reactive HLA-B27 molecules were absent from the cell surface, indicating that the peptide transporter was required for delivery of the long peptides. Thus, during the folding of class I heavy chains, peptides of diverse lengths are available and participating. Cytology and Cytochemistry - Human \*02508 Biochemical Studies - Proteins, Peptides and Amino Acids \*10064

\*10508 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and

Reticuloendothelial System \*15008 Immunology and Immunochemistry - Immunopathology, Tissue Immunology \*34508 Hominidae \*86215 BC Major Concepts IT Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Cell Biology; Clinical Immunology (Human Medicine, Medical Sciences); Membranes (Cell Biology) Miscellaneous Descriptors ΙT HUMAN MAJOR HISTOCOMPATIBILITY COMPLEX ORGN Super Taxa Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia ORGN Organism Name Hominidae (Hominidae) ORGN Organism Superterms animals; chordates; humans; mammals; primates; vertebrates L102 ANSWER 10 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS 1993:241678 BIOSIS ΑN DN PREV199344114878 Characterization of naturally processed self peptides bound to ΤI HLA-DR alleles. ΑU Chicz, Roman M. (1); Urban, Robert G. (1); Gorga, Joan C. (1); Vignali, Dario A. (1); Lane, Wiliam S.; Strominger, Jack L. (1) (1) Dep. Biochem. Mol. Biol., Harvard Univ., Cambridge, MA 02138 USA CS SO Journal of Cellular Biochemistry Supplement, (1993) Vol. 0, No. 17 PART C, pp. 66. Meeting Info.: Keystone Symposium on Emerging Principles for Vaccine Development: Antigen Processing and Presentations Taos, New Mexico, USA February 8-14, 1993 ISSN: 0733-1959. DT Conference English LA CC General Biology - Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals Cytology and Cytochemistry - Human 02508 Genetics and Cytogenetics - Human \*03508 Biochemical Studies - Proteins, Peptides and Amino Acids \*10064 Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies \*15004 Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and Reticuloendothelial System \*15008 Immunology and Immunochemistry - Immunopathology, Tissue Immunology \*34508 BC Hominidae \*86215 ΙT Major Concepts Biochemistry and Molecular Biophysics; Blood and Lymphatics (Transport and Circulation); Clinical Immunology (Human Medicine, Medical Sciences); Genetics TΤ Miscellaneous Descriptors ABSTRACT; B CELLS; IMMUNOMODULATORS; MAJOR HISTOCOMPATIBILITY COMPLEX ORGN Super Taxa Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia ORGN Organism Name Hominidae (Hominidae) ORGN Organism Superterms animals; chordates; humans; mammals; primates; vertebrates L102 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS 1992:318275 BIOSIS AN DN BR43:19000 BIOCHEMICAL ANALYSIS OF NATURALLY PROCESSED PEPTIDES BOUND TO TТ HUMAN CLASS II MOLECULES. ΑŲ URBAN R G; CHICZ R C; GORGA J C; LANE W S; STERN L J; VIGINALI D; STROMINGER J L DEP. BIOCHEM. MOLECULAR BIOL., HARVARD UNIV., CAMBRIDGE, MASS. 02138.

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SO
     KEYSTONE SYMPOSIUM ON ANTIGEN PRESENTATION FUNCTIONS OF THE MHC
     (MAJOR HISTOCOMPATIBILITY COMPLEX), TAOS, NEW MEXICO, USA, MARCH 5-11,
     1992. J CELL BIOCHEM SUPPL. (1992) 0 (16 PART D), 41.
     CODEN: JCBSD7.
DT
     Conference
     BR; OLD
FS
     English
LA
     General Biology - Symposia, Transactions and Proceedings of
CC
     Conferences, Congresses, Review Annuals 00520
     Cytology and Cytochemistry - Human *02508
     Genetics and Cytogenetics - Human *03508
     Biochemical Studies - Proteins, Peptides and Amino Acids *10064
     Biophysics - Molecular Properties and Macromolecules 10506
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
     Immunology and Immunochemistry - Immunopathology, Tissue Immunology
     *34508
     Hominidae 86215
BC
IT
     Miscellaneous Descriptors
        ABSTRACT MAJOR HISTOCOMPATIBILITY COMPLEX CLASS II
        ANTIGEN PRESENTING CELL ALLELIC VARIATION
L102 ANSWER 12 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS
ΑN
     1992:318155 BIOSIS
DN
     BR43:18880
     PEPTIDE BINDING TO HLA-A2 FROM THE MUTANT HUMAN CELL LINE.
TI
     CHICZ R M; URBAN R G; LANE W S; STROMINGER J L
ΑU
     DEP. BIOCHEM. AND MOL. BIOL., HARVARD UNIV., CAMBRIDGE, MASS. 02138.
CS
     KEYSTONE SYMPOSIUM ON ANTIGEN PRESENTATION FUNCTIONS OF THE MHC
SO
     (MAJOR HISTOCOMPATIBILITY COMPLEX), TAOS, NEW MEXICO, USA, MARCH 5-11,
     1992. J CELL BIOCHEM SUPPL. (1992) 0 (16 PART D), 11.
     CODEN: JCBSD7.
DT
     Conference
FS
     BR: OLD
LA
     English
     General Biology - Symposia, Transactions and Proceedings of
     Conferences, Congresses, Review Annuals 00520
     Cytology and Cytochemistry - Human *02508
     Genetics and Cytogenetics - Human *03508
     Biochemical Studies - Proteins, Peptides and Amino Acids *10064
     Biophysics - Molecular Properties and Macromolecules
                                                           *10506
     Biophysics - Membrane Phenomena
                                      *10508
     Blood, Blood-Forming Organs and Body Fluids - Lymphatic Tissue and
     Reticuloendothelial System *15008
     Immunology and Immunochemistry - Immunopathology, Tissue Immunology
     *34508
BC
     Hominidae 86215
     Miscellaneous Descriptors
IT
        ABSTRACT MAJOR HISTOCOMPATIBILITY COMPLEX CLASS I
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                                    200109
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                                    200109
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE
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L103 ANSWER 1 OF 1 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD

2000-224317 [19] WPIX AN

DNC C2000-068486

TI An expressed protein tag ligand profile characteristic for a given cell and computer-assisted manipulation of the profile, useful for, e.g. determining diseased versus normal cells.

DC B04 D16

CHICZ, R M; HEDLEY, M L; HSU, C; URBAN, R G IN

PΑ (ZYCO-N) ZYCOS INC

CYC

WO 2000009654 A2 20000224 (200019) \* EN 126p C12N000-00 PΙ

> RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

AU 9953367 A 20000306 (200030)

C12N000-00 WO 2000009654 A2 WO 1999-US17680 19990804; AU 9953367 A AU 1999-53367

ADT 19990804

FDT AU 9953367 A Based on WO 200009654

19980812; US 1998-133094 PRAI US 1999-135728 19990525; US 1998-96291 19980812

ICM C12N000-00 IC

WO 200009654 A UPAB: 20000419 AΒ

> NOVELTY - An expressed protein tag ligand profile characteristic for a given cell is new.

DETAILED DESCRIPTION - A ligand profile which is characteristic for a given cell, comprises a representation of at least 10 different polypeptide ligands, all of which bind to a single type of multi-ligand binding receptor, where the representation characterizes each individual ligand based upon at least:

- (a) 3 physical or chemical attributes;
- (b) 2 physical or chemical attributes, one of the attributes being mass or mass-to-charge ratio, and
- (c) 1 physical or chemical attribute comprising amino acid sequence, provided that if the multi-ligand binding receptor is an MHC class I or II receptor, then for (a) and (b) at least 500, and for (c) at least 50, polypeptide ligands are represented in the ligand profile and further provided that the ligand profile is a reproducible characteristic of the cell.

INDEPENDENT CLAIMS are also included for the following:

- (1) a method of generating a reproducible ligand profile for a given cell type; a method of generating a subtraction profile of polypeptide ligands; a subtraction profile generated by (2);
- (2) a method of comparing a first cell sample to a reference cell sample; a set of ligand profiles;
- (3) a method of detecting a difference between the set of proteins expressed in a first cell and the set of proteins expressed in a second cell;
  - (4) a differential profile generated by (6);
- (5) a database, stored on a machine-readable medium comprising 3 categories of data respectively representing ligand profiles, cell sources and receptor types and associations among instances of the 3 categories of data, where the database configures a computer to enable finding instances of data of one of the categories based on their associations with instances of data of another one of the categories;
  - (6) a machine-implemented method comprising forming a query for

searching a database as in (8), and (7) a machine-based method of investigation. USE - The methods can be used for generating a reproducible ligand profile for a given cell type and for generating a subtraction profile of polypeptide ligands. A characteristic profile or fingerprint of polypeptide ligands can be generated for a given cell type, for diseased versus normal cells, for different metabolic or development states of a cell. The methods can be used to monitor treatment of diseased cells using a candidate drug regimen. The profiles can also be used to characterize gene expression patterns in transgenic and knockout animals. The database can be used for manipulation of the data obtained from the ligand profiles. ADVANTAGE - None given. Dwg.0/6 TECH WO 200009654 A2UPTX: 20000419 TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Profiles: The ligand profile which is characteristic for a given cell preferably comprises ion fragmentation patterns or amino acid sequences where the ligands have distinct core peptides, provided that at least 100 polypeptide ligands are represented in the profile. The multi-ligand binding receptor is (not) an MHC class I or II receptor. It is preferably a chaperonin, a calnexin, a calreticutin, a mannosidase, a N-glycanase, a BIP, a grp94, a grp96, hsp60, hsp65, hsp70, hsp90, hsp25, an E2 or E3 ubiquitin carrier protein, an unfoldase, hsp100, a proteosome, a trafficking protein or a retention protein. The ligand profile is preferably combined with a second ligand profile, which is also a reproducible characteristic of the given cell and is a representation of at least an additional 10 polypeptides, all of which bind to a second type of multi-ligand binding receptor different from the first type of receptor. 184616-0-0-0 CL DET NEW PRD; 200757-0-0-0 CL DET CPI AB: DCN CPI: B01-C09; B04-C01; B04-K01; B04-N04; B11-C08; B11-C08E1; D05-H09; D05-H10 UPB 20000419 \*01\* M423 M710 M720 M750 M905 N102 N104 Q233 DCN: RA00H3-A; RA00H3-N; RA00H3-P \*02\* M423 M750 M905 N102 Q233 M1 DCN: RA00GT-K; RA00GT-A \*03\* M905 P831 Q505 R502 R515 R521 R637 R639 M6 => d all abeg tech tot 1120 DERWENT INFORMATION LTD COPYRIGHT 2001 L120 ANSWER 1 OF 4 WPIX WPIX 2000-013251 [01] DNC C2000-002522 N2000-010268 Identifying mutant peptides from heat-shock protein 70, for treatment of cancer. B04 D16 S03 GAUDIN, C; TRIEBEL, F (INSR) INST ROUSSY GUSTAVE 87 A1 19991028 (200001)\* FR 55p C12N015-12 WO 9954464 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW C07K007-06 <--FR 2777890 A1 19991029 (200001)

KW FS

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PA CYC

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AU 9934258

EP 1073733

DNN

R: BE CH DE ES FR GB IT LI NL WO 9954464 A1 WO 1999-FR957 19990422; FR 2777890 A1 FR 1998-5033 19980422; ADT

FR

A 19991108 (200014) A1 20010207 (200109) <--

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C12N015-12

AU 9934258 A AU 1999-34258 19990422; EP 1073733 A1 EP 1999-915813 19990422, WO 1999-FR957 19990422

FDT AU 9934258 A Based on WO 9954464; EP 1073733 A1 Based on WO 9954464 PRAI FR 1998-5033 19980422

ICM C07K007-06; C12N015-12

IC

ICS A61K038-08; A61K038-17; A61K039-395; A61K048-00; C07K014-47; C07K016-18; C12N005-10; C12N015-63; C12N015-74; C12N015-85; G01N033-577; G01N033-68

AB WO 9954464 A UPAB: 20000105

NOVELTY - Identifying peptides (I), derived from heat-shock protein 70 (hsp70) that stimulate a tumor-specific T cell response is new.

DETAILED DESCRIPTION - Identifying (I) from heat-shock protein 70 (hsp70), that

- (1) have at least one mutation or alteration compared with the native sequence, and
  - (2) induce a tumor-specific T-cell response, the method comprising:
  - (i) amplifying hsp70-encoding DNA from one or more tumors;
  - (ii) cloning in a vector that can be replicated in bacteria;
- (iii) sequencing fragments in each cultured bacterial colony to identify any hsp70 mutations, and
- (iv) determining the immunogenicity of the mutant peptides identified.

INDEPENDENT CLAIMS are also included for the following:

- (a) detecting artificial point mutations or alterations that increase immunogenicity of mutated (I) by identifying 9-10 amino acid (aa) fragments that include a motif for anchorage to a selected HLA (human leucocyte antigen) molecule, introducing an additional mutation at positions 4-8 and determining immunogenicity of the products;
  - (b) (I) containing at least 8 consecutive aa from hsp70;
  - (c) DNA fragments (II) that encode (I);
- (d) expression vector containing (II) fused to strong promoter functional in eukaryotic and/or prokaryotic, especially human, cells;
- (e) dendritic cells loaded with (I) or transformed with the vector of (d);
- (f) composition containing (I), vectors of (d), (II) or cells of (e) plus a vehicle;
- (g) combined preparation comprising (I) and an agent (III) that induces cellular stress, for simultaneous, separate or staged use for treatment of cancer;
- (h) production of antibodies (Ab) that bind to hsp70 mutants, specifically the hsp70-2-I-293 mutant, by immunizing animals with (I);
  - (i) monoclonal Ab;
  - (j) detecting mutant hsp70 using Ab;
  - (k) kits containing Ab for diagnosis and prognosis of cancer; and
  - (1) a composition containing Ab and a vehicle.

ACTIVITY - Anticancer.

MECHANISM OF ACTION - (I) induce a specific T cell immune response against tumor and break tolerance to the native form of hsp70.

USE - (I), optionally formulated with an agent (III) that induces cellular stress, are used for treatment of cancer, particularly solid cancers (carcinoma, sarcoma, melanoma, neuroblastoma, cancers of head and neck, particularly kidney cancer). Repeated administration of (I) breaks immune tolerance to the native hsp70. (I) may also be used to increase the proportion of tumor-specific cytotoxic T lymphocytes in a cell culture and/or induce these cells to secrete cytotoxic factors (specifically interleukin-2, interferon gamma and tumor necrosis factor), particularly where the cells are used to stimulate immune defenses. Antibodies raised against (I) are used as immunoassay reagents for detecting (I), particularly for diagnosis and prognosis of tumors, also therapeutically against cancer.

ADVANTAGE - The method identifies peptides with high immunogenicity and high specificity for particular HLA (human leucocyte antigen) alleles. CD8+ cells were isolated from HLA-A2 donors and incubated with an equal number of T2 (HLA-A2.1) cells loaded with 1 mu M peptide. After 20 hr, the cells were analyzed by the 'Elispot' method for secretion of interferon gamma . Where cells were loaded with the preferred peptides

FS

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MC

TECH

ΑN DNC

TΤ DC

IN PA

CYC

ADT

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AB

9921572 A UPAB: 19990902

PΙ

SLFEGIDIY(T)n, the interferon concentration was higher, in every case, than when they were loaded with native hsp70, typically about double. Dwg.0/9 CPI EPI AB; DCN CPI: B04-C01B; B04-E02B; B04-E03B; B04-E08; B04-F04; B04-F1000E; B04-G02; B04-H01; B04-L04A; B04-N02; B04-N02A; B11-C07A; B11-C08E1; B11-C08E3; B12-K04A1; B12-K04F; B14-H01; B14-S11C; D05-H07; D05-H09; D05-H11A; D05-H12A; D05-H12E; D05-H14; D05-H17A; D05-H18A EPI: S03-E14H UPTX: 20000105 TECHNOLOGY FOCUS - BIOLOGY - Preferred Process: Immunogenicity is determined by the 'Elispot' method, particularly detection and or quantification of T CD8+ cells that secrete tumor necrosis factoralpha (TNFa), or other cytokines. The mutant peptides tested are selected for presence of an HLA-anchorage motif. Preferred Peptides: (I) have at least 80% homology with the aa region 286-294 of hsp70, preferably with position 293 occupied by I (best), L, V, A, G or F. (I) may include at least one component that is not a natural amino acid and may be modified conventionally, e.g. to improve stability, bioavailability, affinity for HLA etc. TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Vectors: These are viral vectors, plasmids or pseudovectors and may also include at least one of selection marker and immunostimulant, e.g. a cytokine and/or lymphokine. TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Compositions: Compositions of (f) and (g) may include one or more adjuvants, particularly cytotoxins from tumors. In products of (g), (III): (1) induces overexpression of heat shock proteins, particularly hsp70; (2) induces apoptosis (particularly it damages DNA, is a glucocorticoid receptor ligand or a pro-apoptotic second messenger) or (3) induces hypoxia in tumors (particularly an anti-angiogenic agent). Alternatively (III) is a viral vector encoding an enzyme that activates po-apoptotic agents, e.g. thymidine kinase. TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preparation: (I) are made by usual methods of peptide synthesis. L120 ANSWER 2 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD 1999-418411 [35] WPIX C1999-122904 Single chain major histocompatibility complex class I complexes. ACEVEDO, J; BURKHARDT, M; JIAO, J; RHODE, P R; WONG, H C (SUNO-N) SUNOL MOLECULAR CORP 82 A1 19990506 (199935) \* EN 148p A61K038-00 WO 9921572 RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW A 19990517 (199939) A61K038-00 <--AU 9898001 A1 20000816 (200040) A61K038-00 EP 1027066 EN R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE WO 9921572 A1 WO 1998-US21520 19981013; AU 9898001 A AU 1998-98001 19981013; EP 1027066 A1 EP 1998-952256 19981013, WO 1998-US21520 19981013 AU 9898001 A Based on WO 9921572; EP 1027066 Al Based on WO 9921572 19971029 PRAI US 1997-960190 ICM A61K038-00 C07K014-74; C12N015-09; C12N015-12 ICS

NOVELTY - New single chain major histocompatibility complex (sc-MHC) class II complexes comprise a peptide binding groove, and a modified class II

beta 2 chain or covalently linked immunoglobulin (Ig) light chain constant (C1) region.

DETAILED DESCRIPTION - An empty sc-MHC class II molecule comprising a peptide binding groove and:

- (a) a class II beta 2 chain comprising at least one amino acid substitution or deletion; or
  - (b) covalently linked IgCl region or fragment.

INDEPENDENT CLAIMS are also included for the following:

- (1) an empty sc-MHC class II fusion comprising a peptide binding groove, where the molecule comprises covalently linked in sequence:
- (a) an MHC class II beta 1 chain or presenting peptide binding portion;
  - (b) a modified class II beta 2 chain;
  - (c) a peptide linker sequence; and
- (d) an MHC class II alpha 1 alpha 2 chain or presenting peptide binding portion;
- (2) an empty sc-MHC class II fusion comprising a peptide binding groove, where the molecule comprises covalently linked in sequence:
- (a) an MHC class II beta 1 beta 2 chain or presenting peptide binding portion;
  - (b) a peptide linker sequence;
- (c) an MHC class II alpha 1 alpha 2 chain or presenting peptide binding portion; and
  - (d) an IgCl region fragment;
- (3) sc-MHC class II fusion proteins comprising a recombinantly fused presenting peptide and;
  - (a) a class II beta 2 chain; or
  - (b) covalently linked IgCl region or fragment;
- (4) sc-MHC class II fusion proteins comprising a peptide-binding groove, the sc-MHC class II fusion molecule comprising covalently linked in sequence a presenting peptide and an empty sc-MHC as in (1) or (2);
- (5) an empty polyspecific MHC complex or fusion comprising a sc-MHC class following the general formula (I);
- (6) a polyspecific MHC complex or fusion comprising an empty sc-MHC class II molecule comprising a peptide binding groove, the complex being represented by the formulae A-B-C, B-A-C or A-C-B, provided that when the complex is A-C-B, -C- is not -H;
- (7) loaded sc-MHC produced by contacting an empty sc-MHC or polyspecific MHC as above with a presenting peptide under conditions which form a complex between the presenting peptide and the (at least one) empty sc-MHC;
- (8) a DNA segment encoding the sc-MHC class II molecule of (1), (2) or (3);
- (9) a DNA segment encoding a portion of a sc-MHC class II fusion comprising a peptide-binding groove and an empty sc-MHC as in (2), or a polyspecific MHC complex as in (6);
  - (10) DNA vectors comprising DNA as in (8) or (9); and
- (11) manufacture of a sc-MHC class II molecule or polyspecific MHC complex.
  - A = at least one empty sc-MHC class II molecule;
- B, B1, B2 = are each independently a joining molecule the same or different;
- C, C1, C2 = are each independently an effector molecule the same or different; and D = at least one empty sc-MHC class II molecule, ligand binding molecule or -H  $\,$

ACTIVITY - ACTIVITY - Immunosuppressive.

MECHANISM OF ACTION - Vaccine.

USE - The MHC complexes are useful for detection and analysis of peptide ligands, pathogenic T-cells, for functional, cellular and molecular assays. They can be used to identify and/or isolate T cell receptor and/or MHC agonists and antagonists. They can be used in vivo to compete with pathogenic antigen presenting cells involved in immune-related disorders. They can also be used to raise antibodies and to screen immune cells. It is also use in a method of suppressing an immune response in mammals (claimed).

ADVANTAGE - The sc-MHC complexes comprising modified class II beta 2

chains and/or Ig-Cl regions are soluble and provide enhanced yield. These MHC complexes also can contain single antigenic peptides readily isolated from expressing cells in significant quantities. The polyspecific MHC complexes also provide a means to detect cells expressing multiple target structures with a single complex.

DESCRIPTION OF DRAWING(S) - In vivo expression of sc-IAd/OVA suppresses T-cell clonal expansion.
Dwg.8B/8

FS CPI

FA AB; GI; DCN

MC CPI: B04-C01; B04-E01; B04-E08; B04-N04; B12-K04A; B14-G02; D05-C12; D05-H09; D05-H12A; D05-H12E; D05-H17C

TECH

TECHNOLOGY FOCUS - BIOTECHNOLOGY - Preferred Complexes: The class II beta2 chain is completely deleted, and the sc-MHC class II molecule further comprises an IgCl region fragment.

L120 ANSWER 3 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD AN 1993-303460 [38] WPIX

DNC C1993-135206

New protein forming complex with heat shock protein - also binding immuno-suppressors, etc., and corresp. nucleic acid antibodies etc., useful e.g. for detecting tumours, treating auto-immune disease, etc..

DC B04 D16

IN BAULIEU, E; CALLEBAUT, I; CHAMBRAUD, B; LEBEAU, M; MASSOL, N; MORNON, J; RADANYI, C; RENOIR, M

PA (INRM) INSERM INST NAT SANTE & RECH MEDICALE

UPTX: 19990902

CYC 18

PI WO 9318146 A2 19930916 (199338)\* FR 43p C12N015-12 <-RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
W: JP US

FR 2688227 A1 19930910 (199346) 37p C12N015-12 <---WO 9318146 A3 19931111 (199514) C12N015-12 <---

ADT WO 9318146 A2 WO 1993-FR219 19930304; FR 2688227 A1 FR 1992-2612 19920304; WO 9318146 A3 WO 1993-FR219 19930304

PRAI FR 1992-2612 19920304

REP No-SR.Pub; 2.Jnl.Ref; WO 9104321; WO 9201052

IC ICM C12N015-12

ICS C07K013-00; C12N001-21; C12N015-63; C12P021-08; C12Q001-68; G01N033-536

AB WO 9318146 A UPAB: 19931123

New nucleotide sequence (I) comprises, or consists of, a chain which can hybridise under stringent conditions, with one or more sequences of a gene the cDNA from which has a structure defined in the specification.

Also new are (1) RNA (and complementary sequences) and proteins derived from (I); (2) recombinant cloning and expression vectors contg. (I); (3) microorganisms contg. (I) or these vectors; (4) amino acid sequences (A) deduced from (I); (5) complexes of (A) with heat shock protein (hsp) 90, or other hsp; (6) antibodies (monoclonal or polyclonal) specific for (A) and their complexes.

Partic. (I) contains all or part of the open reading frame extending from position 4 to 1380 of the specified sequence.

USE/ADVANTAGE - (I), isolated from rabbit liver, encodes a protein able to complex hsp 90 (a 'chaperone' protein which can bind to many ligands such as steroid hormone receptors, vitamin D, and tyrosine kinases of viral oncogenes), even when this is part of a hetero-oligomer with other proteins. (I)-derived probes can be used to detect genes producing protein reactive with hsp 60, esp. early expression of such genes may be useful for assessing development and/or differentiation of tumours. Antibodies can be used to detect expression products of (I), also to detect immunosuppressor receptors and to reduce the endocrinal side effects of immunosuppressors. (A) can be used to study, prevent or treat diseases (e.g. autoimmune disease, cancer, rickets, or dioxin poisoning) associated with dysfunction of proteins which form complexes with hsp90 and to localise such proteins. In particular, the proteins reactive with hsp 90 are normally confined to the nucleus but in tumour cells are also

present in the cytoplasm. Dwg.0/8 CPI FS FΑ AB MC CPI: B04-B02B; B04-B04A; B04-B04C6; B04-C01; B12-A01; B12-A06; B12-D02A; B12-G07; B12-J05C; B12-J08; D05-H03B; D05-H09; D05-H11; D05-H12 2688227 A UPAB: 19940103 ABEO FR New nucleotide sequence (I) comprises, or consists of, a chain which can hybridise under stringent conditions, with one or more sequences of a gene the cDNA from which has a structure defined in the specification. Also new are (1) RNA (and complementary sequences) and proteins derived from (I); (2) recombinant cloning and expression vectors contg. (I); (3) microorganisms contg. (I) or these vectors; (4) amino acid sequences (A) deduced from (I); (5) complexes of (A) with heat shock protein (hsp) 90, or other hsp; (6) antibodies (monoclonal or polyclonal) specific for (A) and their complexes. Partic. (I) contains all or part of the open reading frame extending from position 4 to 1380 of the specified sequence. USE/ADVANTAGE - (I), isolated from rabbit liver, encodes a protein able to complex hsp 90 (a 'chaperone' protein which can bind to many ligands such as steroid hormone receptors, vitamin D, and tyrosine kinases of viral oncogenes), even when this is part of a hetero-oligomer with other proteins. (I)-derived probes can be used to detect genes producing protein reactive with hsp 60, esp. early expression of such genes may be useful for assessing development and/or differentiation of tumours. Antibodies can be used to detect expression products of (I), also to detect immunosuppressor receptors and to reduce the endocrinal side effects of immunosuppressors. (A) can be used to study, prevent or treat diseases (e.g. autoimmune disease, cancer, rickets, or dioxin poisoning) associated with dysfunction of proteins which form complexes with hsp90 and to localise such proteins. In particular, the proteins reactive with hsp 90 are normally confined to the nucleus but in tumour cells are also present in the cytoplasm. Dwg.0/6 L120 ANSWER 4 OF 4 WPIX COPYRIGHT 2001 DERWENT INFORMATION LTD 1991-310357 [42] WPIX ΑN DNC C1991-134410 Chimeric monoclonal antibodies with receptor binding ligand - are TΙ immunologically active and useful for treating drugs, especially in treatment of cerebral tumours and dementia. DC B04 D16 MORRISON, S L; SHIN, S; SHIN, S U IN (UYCO) UNIV COLUMBIA NEW YORK; (UYCO-N) COLUMBIA UNIV NEW Y PA CYC PI WO 9114438 A 19911003 (199142)\* <--RW: AT BE CH DE DK ES FR GB GR IT LU NL SE W: AU CA JP US AU 9175582 A 19911021 (199203) A1 19930113 (199302) EN 110p A61K035-14 EP 521985 R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE JP 05506574 W 19930930 (199344) 30p C12P021-08 <--B 19941124 (199503) C07K015-12 <--AU 654811 EP 521985 A4 19930324 (199525) <--68p C12N015-13 EP 521985 B1 19970924 (199743) ΕN <--R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE C12N015-13 <--DE 69127749 E 19971030 (199749) EP 521985 A1 EP 1991-906955 19910320, WO 1991-US1844 19910320; JP 05506574 ADT W JP 1991-507276 19910320, WO 1991-US1844 19910320; AU 654811 B AU 1991-75582 19910320; EP 521985 A4 EP 1991-906955 ; EP 521985 B1 EP 1991-906955 19910320, WO 1991-US1844 19910320; DE 69127749 E DE 1991-627749 19910320, EP 1991-906955 19910320, WO 1991-US1844 19910320 EP 521985 A1 Based on WO 9114438; JP 05506574 W Based on WO 9114438; AU 654811 B Previous Publ. AU 9175582, Based on WO 9114438; EP 521985 B1

Based on WO 9114438; DE 69127749 E Based on EP 521985, Based on WO 9114438

PRAI US 1990-496409

19900320

REP 4.Jnl.Ref; US 4816567; 2.Jnl.Ref; EP 271227; EP 323806; EP 439095; WO 8809344

IC ICM A61K035-14; C07K015-12; C12N015-13; C12P021-08

ICS A61K037-02; A61K037-04; A61K039-395; A61K047-48; C07K013-00; C07K015-22; C07K016-18; C12N005-00; C12N015-17; C12N015-18; C12N015-62; C12P021-02

AB WO 9114438 A UPAB: 19971113

The mAbs comprise 2 molecules each of 2 different polypeptides functioning as the light and heavy chains of the Ab. Each longer (heavy) polypeptide chain has a variable region characteristic of a first mammal and a constant region characteristic of a second mammal. Each shorter (light) chain has mammalian variable and constant regions. A receptor-binding ligand replaces at least a portion of the constant region of each of the polypeptides which function as heavy chains. Preferably the light chain is characteristic of either the first or second mammal. Mouse-human chimeric Abs are preferred.

The receptor-binding ligand is preferably a growth factor, TNF, transferring or a lymphokine. The mAb is preferably IgG, IgA, IgD, IgE or IgM. The variable region is preferably a T cell receptor domain, an MHC Ag domain or a surface glycoprotein CD4/CD8 domain.

Immunologically active complexes as above are also claimed. The chimeric polypeptides forming the heavy and light chains are claimed together with expression vectors for their preparation. A moiety, specifically a drug (methotrexate or a toxin) or a label, may be attached to the mAb. Production of the mAbs by recombinant techniques is also claimed.

USE/ADVANTAGE - Drug delivery utilising the mAbs linked to a drug moiety is claimed, especially where the receptor-binding ligand is a growth factor. Drugs can be targetted specifically to blood, muscle, nerve, bone, epithelial and, especially, brain cells in the treatment of progressive dementia, cerbral cortical atrophy, malignant neurosarcoma, lympoma etc. where the growth factor binding results in transport of the Ab across the blood-brain barrier. Also claimed is treatment of malignant cells in general. Pharmaceutical compositions containing the mAbs are also claimed. @(110pp Dwg.No.0/16)@

FS CPI

FA AB

MC

CPI: B04-B02D2; B04-B04A1; B04-B04A3; B04-B04C5; B04-B04J; B04-C01; B06-D09; B06-F03; B11-C07A3; B11-C07A4; B12-G07; B12-K04A1; D05-C11; D05-H09; D05-H11; D05-H12

ABEO JP 05506574 W UPAB: 19931213

The mAbs comprise 2 molecules each of 2 different polypeptides functioning as the light and heavy chains of the Ab. Each longer (heavy) polypeptide chain has a variable region characteristic of a first mammal and a constant region characteristic of a second mammal. Each shorter (light) chain has mammalian variable and constant regions. A receptor-binding ligand replaces at least a portion of the constant region of each of the polypeptides which function as heavy chains. Preferably the light chain is characteristic of either the first or second mammal. Mouse-human chimeric Abs are preferred.

The receptor-binding ligand is pref. a growth factor, TNF, transferring or a lymphokine. The mAb is preferably IgG, IgA, IgD, IgE or IgM. The variable region is preferably a T cell receptor domain, an MHC Ag domain or a surface glycoprotein CD4/CD8 domain.

Immunologically active complexes as above are also claimed. The chimeric polypeptides forming the heavy and light chains are claimed together with expression vectors for their preparation. A moiety, specifically a drug (methotrexate or a toxin) or a label, may be attached to the mAb. Production of the MAbs by recombinant techniques is also claimed. Also claimed is treatment of malignant cells in general and pharmacetical compositions containing the mAbs.

USE/ADVANTAGE - Drug delivery utilising the mAbs linked to a drug moiety is claimed, especially where the receptor-binding ligand is a growth factor. Drugs can be targetted specifically to blood, muscle, nerve, bone, epithelial and, especially, brain cells in the treatment of progressive dementia, cerebral cortical atrophy, malignant neurosarcoma,

lymphoma, etc. where the growth factor binding results in transport of the Ab across the blood-brain barrier.

ABEO EP 521985 B UPAB: 19971030

A modified chimeric monoclonal antibody comprising two molecules of each of two different polypeptides, the shorter of which functions as the light chains of the antibody and the longer of which polypeptides function as the heavy chains of the antibody, each polypeptide which functions as a heavy chain having a variable region characteristic of a first mammal and a constant region characteristic of a second mammal, and each polypeptide which functions as a light chain having a variable region characteristic of a mammal and a constant region characteristic of a mammal, wherein a receptor-binding ligand is covalently attached to the ends of the constant regions of each of the polypeptides which function as the heavy chains of the antibody.

Dwg.0/11

## => fil hcaplus

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PATENT NO.

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L153 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     2000:842156 HCAPLUS
ΑN
DN
     134:14918
     Green fluorescent protein analogs containing ligand-binding
ΤI
     sensor peptides for use as reporter moieties
     Tsien, Roger Y.; Baird, Geoffrey A.
IN
     Regents of the University of California, USA
PA
     PCT Int. Appl., 94 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07K
     9-2 (Biochemical Methods)
CC
     Section cross-reference(s): 3
FAN.CNT 1
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APPLICATION NO. DATE

KIND DATE

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WO 2000-US13684 20000517
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     WO 2000071565
                       A2
                            20001130
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
             CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW,
             AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1999-316919
                      19990521
     US 1999-316920
                      19990521
AΒ
     The present invention provides polypeptide and polynucleotides encoding
     fluorescent indicators having inserted within a fluorescent moiety a
     sensor polypeptide. The proteins are derivs. that are not normally
     fluorescent as a result of FRET coupling. -Binding of a ligand
     to the sensor results in a conformational change and an increase in
     fluorescence of the protein. Also provided are methods of using the
     fluorescent indicator. Circularly permuted fluorescent polypeptides and
     polynucleotides are also provided.
     green fluorescent protein sensor peptide fusion product fluorometric
ST
     analysis; circular permutation green fluorescent protein sensor peptide
     fusion product
IT
     Transcription factors
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (Egr-1, peptides of, as sensor moieties in green fluorescent proteins;
        GFP analog fusion products showing FRET quenching and contg.
      ligand-binding sensor peptides for use as reporter moieties)
     EF hand
ΙT
        (GFP analogs contg., for calcium detection; GFP analog fusion products
        showing FRET quenching and contq. ligand-binding sensor
        peptides for use as reporter moieties)
IT
     Heat-shock proteins
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (HSP 90.alpha., peptides of, as sensor moieties in
        green fluorescent proteins; GFP analog fusion products showing FRET
        quenching and contq. ligand-binding sensor peptides for use
        as reporter moieties)
     Proteins, specific or class
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (MARCKS (myristoylated alanine-rich C-kinase substrate), peptides of,
        as sensor moieties in green fluorescent proteins; GFP analog fusion
        products showing FRET quenching and contg. ligand-binding
        sensor peptides for use as reporter moieties)
     Histocompatibility antigens
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (MHC (major histocompatibility complex), dil., peptides of, as sensor
        moieties in green fluorescent proteins; GFP analog fusion products
        showing FRET quenching and contg. ligand-binding sensor
        peptides for use as reporter moieties)
TT
     Protein motifs
        (PTB (phosphotyrosine-binding) domain, GFP analogs contg., for calcium
        detection; GFP analog fusion products showing FRET quenching and contg.
      ligand-binding sensor peptides for use as reporter moieties)
IT
     Protein motifs
        (SH2 domain, GFP analogs contg., for calcium detection; GFP analog
        fusion products showing FRET quenching and contg. ligand
```

-binding sensor peptides for use as reporter moieties)

```
TT
    Protein motifs
        (SH3 domain, GFP analogs contg., for calcium detection; GFP analog
       fusion products showing FRET quenching and contg. ligand
       -binding sensor peptides for use as reporter moieties)
    Phosphoproteins
IT
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (adducins, peptides of, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
    Proteins, specific or class
TT
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (calspermins, peptides of, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
    Receptors
IT
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (carbohydrate, peptides of, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
    Protein engineering
IT
        (circular permutation, of green fluorescent protein analogs; GFP analog
       fusion products showing FRET quenching and contg. ligand
       -binding sensor peptides for use as reporter moieties)
IT
    Escherichia coli
    Yeast
        (expression host; GFP analog fusion products showing FRET quenching and
       contg. ligand-binding sensor peptides for use as reporter
       moieties)
IT
    Chimeric gene
    RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (for GFP fusion products, expression in microbial hosts; GFP analog
       fusion products showing FRET quenching and contg. ligand
       -binding sensor peptides for use as reporter moieties)
    Glycoproteins, specific or class
IT
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (gp160, peptides of, as sensor moieties in green fluorescent proteins;
       GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
    Proteins, specific or class
TΤ
    RL: ARU (Analytical role, unclassified); PRP (Properties); ANST
     (Analytical study)
        (green fluorescent, fusion products; GFP analog fusion products showing
       FRET quenching and contg. ligand-binding sensor peptides for
       use as reporter moieties)
IT
    Animal cell
        (mammalian, expression host; GFP analog fusion products showing FRET
       quenching and contg. ligand-binding sensor peptides for use
       as reporter moieties)
IT
    Receptors
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (nitric oxide, peptides of, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
IT
    Proteins, specific or class
```

RL: ARU (Analytical role, unclassified); BUU (Biological use,

```
unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (nucleotide-binding, peptides of, as sensor moieties in green
        fluorescent proteins; GFP analog fusion products showing FRET quenching
       and contg. ligand-binding sensor peptides for use as reporter
       moieties)
ΙT
    Phosphates, biological studies
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (peptides of receptor for, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
ΙT
    Antibodies
    Caldesmon
    Calmodulins
    Cytokine receptors
    GAP-43 (protein)
    Growth factor receptors
    Hormone receptors
    Inositol 1,4,5-trisphosphate receptors
    Ion channel
    Neurotransmitter receptors
    Spectrins
    Steroid receptors
    cAMP receptors
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (peptides of, as sensor moieties in green fluorescent proteins; GFP
       analog fusion products showing FRET quenching and contg. ligand
        -binding sensor peptides for use as reporter moieties)
TΤ
    Lipoproteins
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (recoverins, peptides of, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
ΙT
    RL: ARU (Analytical role, unclassified); BUU (Biological use,
    unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (single chain, peptides of, as sensor moieties in green fluorescent
       proteins; GFP analog fusion products showing FRET quenching and contg.
     ligand-binding sensor peptides for use as reporter moieties)
ΙT
     Protein motifs
        (zinc finger, GFP analogs contg., for zinc detection; GFP analog fusion
       products showing FRET quenching and contg. ligand-binding
        sensor peptides for use as reporter moieties)
     9000-83-3
IT
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); ANST (Analytical study); BIOL (Biological study); USES
        (calcium-dependent, peptides of, as sensor moieties in green
        fluorescent proteins; GFP analog fusion products showing FRET quenching
        and contg. ligand-binding sensor peptides for use as reporter
       moieties)
                                 7440-70-2, Calcium, analysis
     7440-66-6, Zinc, analysis
IT
     RL: ANT (Analyte); ANST (Analytical study)
        (fluorometric detn. of; GFP analog fusion products showing FRET
        quenching and contg. ligand-binding sensor peptides for use
        as reporter moieties)
                                 308277-99-8
                                               308278-00-4
     308277-97-6
                   308277-98-7
TT
     RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
     study); USES (Uses)
        (linker peptide in green fluorescent protein fusion products; GFP
        analog fusion products showing FRET quenching and contg. ligand
```

```
-binding sensor peptides for use as reporter moieties)
ΙT
     10102-43-9, Nitric oxide, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (peptides of receptor for, as sensor moieties in green fluorescent
        proteins; GFP analog fusion products showing FRET quenching and contg.
      ligand-binding sensor peptides for use as reporter moieties)
ΙT
     1393-25-5, Secretin
                           9001-80-3, Phosphofructokinase 9001-88-1,
     Phosphorylase kinase 9007-92-5, Glucagon, analysis
                                                            9012-42-4,
                         9025-75-6, Calcineurin 9025-82-5, Phosphodiesterase
     Adenylate cyclase
                                                 37231-28-0, Melittin
     37221-79-7, Vasoactive intestinal peptide
     51845-53-5, Myosin light chain kinase 59392-49-3, Gastric inhibitory
               72093-21-1, Mastoparan 125978-95-2, Nitric oxide synthase
     141436-78-4, Protein kinase C 141467-21-2, Kinase (phosphorylating),
                                              141588-27-4, CGMP-dependent
     protein (calcium-calmodulin-dependent)
     protein kinase
     RL: ARU (Analytical role, unclassified); BUU (Biological use,
     unclassified); ANST (Analytical study); BIOL (Biological study); USES
     (Uses)
        (peptides of, as sensor moieties in green fluorescent proteins; GFP
        analog fusion products showing FRET quenching and contg. ligand
        -binding sensor peptides for use as reporter moieties)
                                 252194-41-5
                                               252194-42-6
                                                              252194-45-9
ΙT
     252194-38-0
                   252194-40-4
     252194-47-1
                   252194-52-8
     RL: PRP (Properties)
        (unclaimed nucleotide sequence; green fluorescent protein analogs
        contq. liqand-binding sensor peptides for use as reporter
        moieties)
     180033-16-3
                   189121-38-8
                                 252194-29-9
                                               252194-30-2
                                                              252194-31-3
ΙT
                                               252194-44-8
                                                              309919-27-5
     252194-33-5
                   252194-35-7
                                 252194-36-8
     309919-28-6
                   309919-78-6
                                 309919-79-7
     RL: PRP (Properties)
        (unclaimed protein sequence; green fluorescent protein analogs contg.
      ligand-binding sensor peptides for use as reporter moieties)
                 26251-06-9
                              60703-95-9
                                           99268-57-2
                                                         99486-45-0
IΤ
     2543-43-3
                                               123168-46-7
                                                              130838-28-7
     113516-56-6
                   120057-55-8
                                 120844-86-2
                                               150243-58-6
                                                              150243-59-7
     137235-69-9
                   141258-67-5
                                 144704-36-9
                                                              172960-20-2
                                 154132-94-2
                                               154243-86-4
     153177-60-7
                   153478-23-0
                                               256504-33-3
                                 243864-27-9
                                                              309752-21-4
     177024-35-0
                   177024-36-1
                                               309752-25-8
     309752-22-5
                   309752-23-6
                                 309752-24-7
                                                              309752-26-9
                                               309752-30-5
                                                              309752-31-6
     309752-27-0
                   309752<del>-</del>28-1
                                 309752-29-2
     309752-32-7
                   309752-33-8
     RL: PRP (Properties)
        (unclaimed sequence; green fluorescent protein analogs contg.
      ligand-binding sensor peptides for use as reporter moieties)
L153 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     2000:824298 HCAPLUS
ΑN
DN
     134:2334
     Protein scaffold and its use to multimerize monomeric polypeptides
ΤI
     Hill, Fergal Conan; Chatellier, Jean; Fersht, Alan
IN
     Medical Research Council, UK
PA
     PCT Int. Appl., 74 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C07K014-245
     ICS C07K014-01; C07K001-113; C07K019-00
     9-16 (Biochemical Methods)
CC
     Section cross-reference(s): 1, 3, 14, 15, 63
FAN.CNT 2
                                           APPLICATION NO.
                                                             DATE
                      KIND DATE
     PATENT NO.
                            _____
                      ____
     WO 2000069907
                            20001123
                      A1
                                           WO 2000-GB1815
                                                             20000512
PT
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
             CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
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ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,

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LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI GB 1999-11298
                      19990514
     GB 1999-28788
                      19991203
                      19991206
     GB 1999-28831
     The invention concerns a polypeptide monomer capable of oligomerization,
AB
     said monomer comprising an heterologous amino acid or amino acid sequence
     inserted into the sequence of a subunit of an oligomerizable protein
     scaffold. The invention provides a polypeptide scaffold which can be used
     to multimerize monomeric polypeptide or protein domains, to produce
     multimeric proteins having any desired characteristic. In
     particular, the invention relates to oligomerizable scaffolds, methods for
     producing oligomeric proteins comprising such scaffolds.
     protein scaffold crosslink polypeptide amino acid sequence
ST
IT
     Peptides, biological studies
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study)
        (DNA-binding; protein scaffold and use to multimerize monomeric
        polypeptides)
ΙT
     Chaperonins
     RL: RCT (Reactant)
        (Gp31; protein scaffold and use to multimerize monomeric polypeptides)
TΤ
     Chaperonins
     RL: RCT (Reactant)
        (GroEL; protein scaffold and use to multimerize monomeric polypeptides)
TT
     Chaperonins
     RL: RCT (Reactant)
        (GroES; protein scaffold and use to multimerize monomeric polypeptides)
     Nervous system
IT
        (Huntington's chorea; protein scaffold and use to multimerize monomeric
        polypeptides)
     Enzymes, biological studies
IΤ
     RL: BPR (Biological process); BSU (Biological study, unclassified); RCT
     (Reactant); BIOL (Biological study); PROC (Process)
        (and inhibitor; protein scaffold and use to multimerize monomeric
        polypeptides)
     Peptides, biological studies
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study)
        (cellular uptake; protein scaffold and use to multimerize monomeric
        polypeptides)
ΙT
     Crosslinking
        (covalent; protein scaffold and use to multimerize monomeric
        polypeptides)
     Proteins, specific or class
ΙT
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (crosslinked; protein scaffold and use to multimerize monomeric
        polypeptides)
IT
     Gene
     Genetic vectors
        (expression; protein scaffold and use to multimerize monomeric
        polypeptides)
     Immunoglobulins
IT
     RL: RCT (Reactant)
        (fragments, natural or camelized VH domain or VHCDR3; protein scaffold
        and use to multimerize monomeric polypeptides)
IT
        (heptameric; protein scaffold and use to multimerize monomeric
        polypeptides)
```

IT

Oligomers

```
RL: RCT (Reactant)
        (homooligomer and heteroligomer; protein scaffold and use to
       multimerize monomeric polypeptides)
IT
    Conformation
        (loop, protein; protein scaffold and use to multimerize monomeric
       polypeptides)
     Peptides, reactions
IT
     RL: RCT (Reactant)
        (monomeric; protein scaffold and use to multimerize monomeric
       polypeptides)
IT
    Antigens
    RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (neutralization; protein scaffold and use to multimerize monomeric
       polypeptides)
IT
     Peptides, biological studies
    Proteins, specific or class
    RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study)
        (nuclear localization; protein scaffold and use to multimerize
       monomeric polypeptides)
ΙT
     Polymerization
        (oligomerization; protein scaffold and use to multimerize monomeric
       polypeptides)
ΙT
    Antibiotics
    Bacteria (Eubacteria)
    Bacteriophage
    Coliphage T4
     Escherichia coli
    Protein sequences
    Ring
     Vaccines
        (protein scaffold and use to multimerize monomeric polypeptides)
IT
    Antigens
    RL: ANT (Analyte); BPR (Biological process); BSU (Biological study,
    unclassified); RCT (Reactant); ANST (Analytical study); BIOL (Biological
     study); PROC (Process)
        (protein scaffold and use to multimerize monomeric polypeptides)
ΙT
    Antibodies
    RL: ANT (Analyte); BPR (Biological process); RCT (Reactant); ANST
     (Analytical study); BIOL (Biological study); PROC (Process)
        (protein scaffold and use to multimerize monomeric polypeptides)
    Amino acids, biological studies
IT
    Hormones, animal, biological studies
     Signal peptides
     RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study)
        (protein scaffold and use to multimerize monomeric polypeptides)
ΙT
    Ligands
    Monomers
     Receptors
    RL: RCT (Reactant)
        (protein scaffold and use to multimerize monomeric polypeptides)
TT
    Proteins, general, preparation
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
        (scaffold; protein scaffold and use to multimerize monomeric
       polypeptides)
    Nucleic acids
IT
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (sequences; protein scaffold and use to multimerize monomeric
       polypeptides)
    Proteins, specific or class
IT
     RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study)
        (signaling; protein scaffold and use to multimerize monomeric
        polypeptides)
```

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Peptides, biological studies
ΙT
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study)
        (solid surface binding; protein scaffold and use to multimerize
        monomeric polypeptides)
                                       9026-43-1, Protein kinase
IT
     9025-75-6, Protein phosphatase
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (substrate; protein scaffold and use to multimerize monomeric
        polypeptides)
                                  308151-89-5
                                                308151-90-8
                                                               308151-91-9
IT
     308151-86-2
                   308151-88-4
                                  308151-95-3
                                                308151-96-4
                                                               308151-97-5
     308151-93-1
                   308151-94-2
     308151-98-6
                   308151-99-7
                                  308390-12-7
                                                308390-13-8
     RL: PRP (Properties)
        (unclaimed nucleotide sequence; protein scaffold and its use to
        multimerize monomeric polypeptides)
RE.CNT
RE
(1) Ariad Gene Therapeutics Inc; WO 9910510 A 1999 HCAPLUS
(2) Biogen Inc; WO 9111461 A 1991 HCAPLUS
(3) Chatellier, J; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
    UNITED STATES 1998, V95(17), P9861 HCAPLUS
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(10) Weber, F; NATURE STRUCTURAL BIOLOGY 1998, V5(11), P977 HCAPLUS
L153 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     2000:772662 HCAPLUS
AN
     133:344596
DN
     A ligand of the protein "beacon"
TΙ
ΙN
     Collier, Greg; Walder, Ken; Zimmet, Paul
     Autogen Pty Ltd, Australia
PΑ
     PCT Int. Appl., 67 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
         C07K014-435
     ICM
          C07K014-475; C07K014-705; A61K038-18; A61K038-17; A61P003-04;
          A61P005-04; C12N015-12; C12Q001-68
     1-1 (Pharmacology)
CC
     Section cross-reference(s): 9, 63
FAN.CNT 1
                                            APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
                                            -----
                                                              20000419
                             20001102
                                            WO 2000-AU342
     WO 2000064931
                       A1
PΙ
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
             CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
             SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI AU 1999-9919
                       19990423
                       20000324
     AU 2000-6454
     The present invention relates generally to a ligand for a
AΒ
     protein assocd. with modulating obesity, diabetes and metabolic energy
     levels in animals and humans and to genetic sequences encoding the
     ligand. More particularly, the present invention is directed to a
     ligand of the protein "beacon" and its homologues. The
     identification of the ligand mol. permits the development of a
```

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range of therapeutic and diagnostic protocols for obesity, diabetes and
     energy imbalance.
ST
    beacon protein ligand obesity diabetes screening sequence
IT
     Protein motifs
        (DNA-binding domains; beacon protein ligand in relation to
       diagnosis and therapy of obesity and diabetes)
     Diagnosis
IT
        (agents; beacon protein ligand in relation to diagnosis and
        therapy of obesity and diabetes)
IT
     Antiobesity agents
     Drug screening
     Molecular cloning
     Nucleic acid hybridization
     Obesity
     Protein sequences
     cDNA sequences
        (beacon protein ligand in relation to diagnosis and therapy
       of obesity and diabetes)
IT
     Heat-shock proteins
    Ligands
     RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (beacon protein ligand in relation to diagnosis and therapy
        of obesity and diabetes)
     Proteins, specific or class
IT
     RL: BPR (Biological process); PRP (Properties); THU (Therapeutic use);
     BIOL (Biological study); PROC (Process); USES (Uses)
        (beacon; beacon protein ligand in relation to diagnosis and
        therapy of obesity and diabetes)
IT
     Drug delivery systems
        (carriers; beacon protein ligand in relation to diagnosis and
        therapy of obesity and diabetes)
IT
     Proteins, specific or class
     RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (cdc; beacon protein ligand in relation to diagnosis and
       therapy of obesity and diabetes)
ΙT
        (cloning in; beacon protein ligand in relation to diagnosis
       and therapy of obesity and diabetes)
IT
     Brain
        (hypothalamus, proteins of; beacon protein ligand in relation
       to diagnosis and therapy of obesity and diabetes)
IΤ
     Gene, animal
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (ob, expression of; beacon protein ligand in relation to
       diagnosis and therapy of obesity and diabetes)
IT
     169494-85-3, Leptin
     RL: PEP (Physical, engineering or chemical process); THU (Therapeutic
     use); BIOL (Biological study); PROC (Process); USES (Uses)
        (beacon protein ligand in relation to diagnosis and therapy
        of obesity and diabetes)
     9031-44-1, Kinase
ŦΤ
     RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological
     study); PROC (Process); USES (Uses)
        (cdc-like; beacon protein ligand in relation to diagnosis and
        therapy of obesity and diabetes)
     223914-98-5, DNA (human gene beacon cDNA)
                                                  304486-98-4
IT
     304487-00-1
     RL: BOC (Biological occurrence); PRP (Properties); BIOL (Biological
     study); OCCU (Occurrence)
        (nucleotide sequence; beacon protein ligand in relation to
        diagnosis and therapy of obesity and diabetes)
IT
     223914-96-3
                   304488-17-3, 3: PN: WO0064931 SEQID: 3 unclaimed DNA
     304488-18-4
```

RL: PRP (Properties)

```
(unclaimed nucleotide sequence; ligand of the protein
     223914-97-4, Protein (Psammomys obesus gene beacon)
IT
     RL: PRP (Properties)
        (unclaimed protein sequence; ligand of the protein "beacon")
                                 304488-19-5
                                                304655-24-1
                                                              304710-28-9
                   200386-43-2
TT
     RL: PRP (Properties)
        (unclaimed sequence; ligand of the protein "beacon")
RE.CNT
RE
(1) Campfield, L; Hormone And Metabolic Research, "The OB protein " 1996,
    V28(12), P619 HCAPLUS
(2) Duncan, P; The Journal of Biological Chemistry 1995, V270(37), P21524
(3) Frankish, H; Peptides 1995, V16(4), P757 HCAPLUS
(4) Hanes, J; Journal of Molecular Biology 1994, V244, P665 HCAPLUS
(5) Howell, B; American Society For Microbiology 1991, V11(1), P568 HCAPLUS
(6) International Diabetes Institute And Deakin University; WO 9923217 A 1999
    HCAPLUS
(7) Kesterson, R; Molecular Endocrinology, "Induction of neuropeptide " 1997,
    V11(5), P630 HCAPLUS
(8) Nayler, O; The Biochemical Journal 1997, V326(pt 3), P693
(9) Scacchi, M; International Journal of Obesity 1999, V23(3), P260 HCAPLUS
L153 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     2000:756973 HCAPLUS
ΑN
     133:319275
DN
ΤI
     Proteome mining with immobilized combinatorial library
ΙN
     Haystead, Timothy A. J.
     University of Virginia Patent Foundation, USA
PΑ
     PCT Int. Appl., 48 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM G01N033-53
     ICS G01N033-566; G01N033-543; C12Q001-00; A61K038-00
     9-2 (Biochemical Methods)
     Section cross-reference(s): 1, 6, 7
FAN.CNT 1
                                            APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
                                           _____
                            ____
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                     A1 20001026
                                          WO 2000-US9714 20000412
     WO 2000063694
PΊ
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
             MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1999-129417
                      19990415
                      19990505
     US 1999-132595
     The present invention relates to a method and app. for screening diverse
AB
     arrays of materials for bioactive compds. In particular, techniques for
     rapidly characterizing compds. in arrays of materials in order
     to discover and/or optimize new materials with specific desired properties
     are provided. The figure represents one of the embodiments of the current
     invention method for isolating bioactive compds. from a complex mixt. of
     proteins using an immobilized combinatorial library. Adenine
     nucleotide-binding proteins were isolated by passing rabbit skeletal
     muscle or other tissue exts. over .gamma.-phosphate-linked ATP-Sepharose,
     washing to remove nonspecifically assocd. proteins and then elution of
     specific proteins by sequential washes with NADH, AMP, ADP, and ATP.
     Eluted proteins were identified by SDS-PAGE anal. and mixed peptide
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sequencing.

proteome mining immobilized combinatorial library; protein screening ST bioactive compd; adenine nucleotide binding protein screening immobilized ATP IT Heat-shock proteins RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (5; proteome mining with immobilized combinatorial library) Heat-shock proteins RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (HSP 60; proteome mining with immobilized combinatorial library) ΙT Heat-shock proteins RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (HSP 70; proteome mining with immobilized combinatorial library) Heat-shock proteins IT RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (HSP 90; proteome mining with immobilized combinatorial library) IT Enzymes, biological studies RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (RNA-unwinding, helicases; proteome mining with immobilized combinatorial library) Proteins, specific or class IT RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (adenine nucleotide-binding, isolation and characterization of; proteome mining with immobilized combinatorial library) Polymers, biological studies ΙT RL: ARG (Analytical reagent use); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses) (beads, with immobilized compds.; proteome mining with immobilized combinatorial library) ΙT Denaturants (chaotropic; proteome mining with immobilized combinatorial library) IT Flavoproteins RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (electron-transporting flavoproteins, P6, .alpha.-subunit; proteome mining with immobilized combinatorial library) ΙT Ligands RL: ARG (Analytical reagent use); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses) (immobilized; proteome mining with immobilized combinatorial library) Proteins, specific or class IT RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process) (lupus nephritis LN1; proteome mining with immobilized combinatorial library) TT Kidney, disease (lupus nephritis, protein LN1 of; proteome mining with immobilized combinatorial library) IT Bladder Brain Kidney Liver Muscle (protein screening from tissue exts. of rabbit; proteome mining with immobilized combinatorial library) IT Apparatus

Buffers

Combinatorial library

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Drug screening
     Drugs
     Immobilization, biochemical
     Microtiter plates
        (proteome mining with immobilized combinatorial library)
     Proteins, general, biological studies
IT
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); BIOL (Biological study); PROC (Process)
        (proteome mining with immobilized combinatorial library)
     pp60c-src protein
IT
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (proteome mining with immobilized combinatorial library)
IT
     Particles
        (with immobilized combinatorial library; proteome mining with
        immobilized combinatorial library)
IT
     Tubulins
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (.beta.-; proteome mining with immobilized combinatorial library)
ΙT
     52660-18-1
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (1 and 11; proteome mining with immobilized combinatorial library)
     141467-21-2
IT
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (II; proteome mining with immobilized combinatorial library)
IT
     30562-34-6, Geldanamycin
                               30562-34-6D, Geldanamycin, analogs
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (in screening for selective inhibitors for purine-binding proteins;
        proteome mining with immobilized combinatorial library)
     9012-36-6D, Sepharose, ATP .gamma.-phosphate-linked
IT
     RL: ARG (Analytical reagent use); BPR (Biological process); ANST
     (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
        (proteins of rabbit tissue exts. binding to; proteome mining with
        immobilized combinatorial library)
     9001-40-5, Glucose-6-phosphate dehydrogenase
                                                    9001-50-7
                                                                 9001-52-9,
IT
                                   9001-58-5, Isocitrate dehydrogenase
     Fructose-1-6-bisphosphatase
                                        9001-64-3, Malate dehydrogenase
     9001-60-9, Lactate dehydrogenase
                                      9001-88-1, Phosphorylase kinase
     9001-80-3, Phosphofructokinase
                                            9023-70-5, Glutamate ammonia
     9023-58-9, Arginosuccinate synthetase
              9026-42-0, Pyridoxal kinase
                                            9027-72-9, Adenosine kinase
                                     9028-40-4, 3-Hydroxyacyl-CoA dehydrogenase
     9027-98-9, Arginine Deiminase
                                         9029-12-3, Glutamate dehydrogenase
     9028-86-8, Aldehyde dehydrogenase
                                        9032-04-6, AIR carboxylase
                                                                     9035-74-9,
     9031-72-5, Alcohol dehydrogenase
                     9073-95-4, 6-Phosphogluconate dehydrogenase
                                                                   51845-53-5
     Phosphorylase
                  104645-76-3, Phosphatidylinositol-4-phosphate 5-kinase
     90698-26-3
     137632-06-5, Protein tyrosine kinase CSK
                                                141588-27-4, Protein kinase G
                                    142243-02-5, MAP kinase
                                                               142805-58-1
     142008-29-5, Protein kinase A
     159202-89-8, Gene ipl1 protein kinase
                                             172306-53-5, Lim-kinase 1
     172522-01-9, AMP activated protein kinase
                                                 189398-79-6, Gene DUN1 protein
              215857-90-2, Gene PKX1 protein kinase
                                                      220983-94-8, Sorbitol
     kinase
     dehydrogenase
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (proteome mining with immobilized combinatorial library)
     303082-57-7
                   303082-58-8
                                 303082-59-9
                                               303082-60-2
IT
     RL: PRP (Properties)
        (unclaimed sequence; proteome mining with immobilized combinatorial
        library)
     141436-78-4
IT
     RL: BAC (Biological activity or effector, except adverse); BPR (Biological
     process); PRP (Properties); BIOL (Biological study); PROC (Process)
        (.beta.II and .epsilon.; proteome mining with immobilized combinatorial
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library)
     56-65-5, ATP, biological studies
                                                       61-19-8, AMP,
IT
                                        58-68-4, NADH
     biological studies
     RL: BPR (Biological process); NUU (Nonbiological use, unclassified); BIOL
     (Biological study); PROC (Process); USES (Uses)
        (.gamma.-phosphate-linked ATP-Sepharose-bound proteins of tissue exts.
        washing and elution with; proteome mining with immobilized
        combinatorial library)
TT
     58-64-0, ADP, biological studies
     RL: BPR (Biological process); NUU (Nonbiological use, unclassified); BIOL
     (Biological study); PROC (Process); USES (Uses)
        (.gamma.-phosphate-linked ATP-Sepharose-bound proteins of tissue exts.
        washing with; proteome mining with immobilized combinatorial library)
RE.CNT
RF.
(1) Blum; PNAS 2000, V97(5), P2241 HCAPLUS
(2) Damer; The Journal of Biological Chemistry 1998, V273(38), P24396 HCAPLUS
(3) Handfiled; FEMS Microbiology Reviews 1999, V23(1), P69
L153 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     2000:278090 HCAPLUS
AN
DN
     132:305484
     Altering the properties of cells or of particles with membranes derived
ΤI
     from cells by means of lipid-modified proteinaceous molecules
     Logtenberg, Ton; De Kruif, Cornelis Adriaan
IN
     U-Bisys B.V., Neth.
PA
     PCT Int. Appl., 63 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM C12N005-06
         C12N005-08; C12N007-00; C12N015-70; C12P021-00; C07K014-00;
          C07K016-00; C12N015-62; C07K019-00; A61K035-12
     9-16 (Biochemical Methods)
CC
     Section cross-reference(s): 3, 6, 15
FAN.CNT 1
                                          APPLICATION NO. DATE
                     KIND DATE
     PATENT NO.
                      ____
                           _____
                                           _____
     WO 2000023570
                     A1
                            20000427
                                           WO 1999-NL644
                                                            19991018
PΙ
        W: CA, JP, NZ
                                           EP 1999-203435 19991018
                            20000517
     EP 1001017
                      Α1
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI EP 1998-203482
                     19981016
     In one aspect the invention is concerned with the means and methods for
     providing a cell and/or a particle comprising a membrane derived from said
     cell with an addnl. proteinaceous mol., said process comprising contacting
     said cell and/or said particle with a lipid-modified proteinaceous mol.,
     wherein said lipid-modified proteinaceous mol. comprises at least one
     protein moiety derived from a first protein and at least one lipidation
     signal derived from a second protein. In a preferred embodiment said
     lipid-modified proteinaceous mol. comprises a part of a mol. derived from
     the immune system. The invention further provides means and methods for
     the prodn. of lipid-modified proteinaceous mols. Also provided are uses
     of a lipid-modified mol. for providing a cell and/or a particle comprising
     a membrane derived from said cell with a novel property. Lipid-tagged
     single chain antibody fragment to CD14 (anti-CD14 LT-scFv) was prepd. by
     cloning methods and incorporated into Jurkat cell membranes.
     lipid modified protein cell membrane incorporation; antibody fragment
ST
     lipid tagged cell membrane incorporation; particle membrane lipid modified
     protein incorporation
     Animal cell line
IT
        (Daudi; altering properties of cells or of particles with membranes
        derived from cells by means of lipid-modified proteinaceous mols.)
IT
     Immunoglobulins
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
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(G, paraproteins, lipid-tagged single chain antibody fragment specific
        for; altering properties of cells or of particles with membranes
        derived from cells by means of lipid-modified proteinaceous mols.)
IT
     Immunoglobulin receptors
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (IqG type I, protein part derived from single chain antibody fragment
        to; altering properties of cells or of particles with membranes derived
        from cells by means of lipid-modified proteinaceous mols.)
IT
     Immunoglobulin receptors
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (IgG type II, protein part derived from single chain antibody fragment
        to; altering properties of cells or of particles with membranes derived
        from cells by means of lipid-modified proteinaceous mols.)
IT
     Animal cell line
        (JURKAT; altering properties of cells or of particles with membranes
        derived from cells by means of lipid-modified proteinaceous mols.)
ΤТ
     Escherichia coli
     Eukaryote (Eukaryotae)
     Genetic vectors
     Membranes, nonbiological
     Molecular cloning
     Particles
        (altering properties of cells or of particles with membranes derived
        from cells by means of lipid-modified proteinaceous mols.)
ΙT
     Fusion proteins (chimeric proteins)
     RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU
     (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); PROC (Process); USES (Uses)
        (altering properties of cells or of particles with membranes derived
        from cells by means of lipid-modified proteinaceous mols.)
IT
        (as particle; altering properties of cells or of particles with
        membranes derived from cells by means of lipid-modified proteinaceous
        mols.)
IT
     Drugs
        (cell or particle for use as; altering properties of cells or of
        particles with membranes derived from cells by means of lipid-modified
        proteinaceous mols.)
IT
     Gene
     Gene, animal
     RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP
     (Preparation)
        (for protein; altering properties of cells or of particles with
        membranes derived from cells by means of lipid-modified proteinaceous
        mols.)
     Immunoglobulins
ΙT
     RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU
     (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); PROC (Process); USES (Uses)
        (fragments, antigen-binding, protein part derived from; altering
        properties of cells or of particles with membranes derived from cells
        by means of lipid-modified proteinaceous mols.)
IT
     Signal peptides
     RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU
     (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); PROC (Process); USES (Uses)
        (in fusion proteins with single chain antibody fragments; altering
        properties of cells or of particles with membranes derived from cells
        by means of lipid-modified proteinaceous mols.)
IT
     Proteins, specific or class
     RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU
     (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); PROC (Process); USES (Uses)
        (lipid-modified; altering properties of cells or of particles with
```

membranes derived from cells by means of lipid-modified proteinaceous

mols.)

IT Kidney, neoplasm

(lipid-tagged single chain antibody fragment incorporation in membrane of cells of, of human; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Mononuclear cell (leukocyte)

(lipid-tagged single chain antibody fragment incorporation in membrane of, of human blood; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Interleukin 2

RL: BPN (Biosynthetic preparation); BPR (Biological process); BIOL (Biological study); PREP (Preparation); PROC (Process) (lipid-tagged; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Lipoproteins

RL: PRP (Properties)

(lipidation signal of; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Signal transduction, biological

(lipidation signal; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Leukemia

(lymphocytic, lipid-tagged single chain antibody fragment incorporation in membrane of cells of, of human blood; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Phagocytosis

(of anti-CD14 lipid-tagged antibody fragment-contg. Jurkat cells; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Globulins, biological studies

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (paraproteins, IgG, lipid-tagged single chain antibody fragment specific for; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Glycolipoproteins

RL: PRP (Properties)

(phosphatidylinositol-contg., lipidation signal of; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Lipids, biological studies

RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(protein modified with; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Immune system

(protein of; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT Erythrocyte

(protein part derived from single chain antibody fragment to, of sheep; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

IT CD14 (antigen)

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (protein part derived from single chain antibody fragment to; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.)

Cell adhesion molecules TΤ Heat-shock proteins Homing receptors Ligands Receptors Transport proteins RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) IT Purification (protein part having tag for detection and; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) IT Cell membrane (protein part interacting with signal-transducing mol. in; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) Proteins, specific or class IT RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (signaling, protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) ΙT Antibodies RL: BPN (Biosynthetic preparation); BPR (Biological process); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (single chain, protein part derived from; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) IT 51-28-5, Dinitrophenol, biological studies RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (lipid-tagged single chain antibody fragment specific for; altering properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) ΙT 264912-84-7 RL: PRP (Properties) (unclaimed protein sequence; altering the properties of cells or of particles with membranes derived from cells by means of lipid-modified proteinaceous mols.) RE.CNT RE (1) de Kruif, J; FEBS LETTERS 1996, V399, P232 MEDLINE (2) McHugh, R; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA 1995, V92, P8059 HCAPLUS (3) Medof, M; FASEB JOURNAL FOR EXPERIMENTAL BIOLOGY 1996, V10, P574 HCAPLUS (4) Tykocinski, M; WO 9612009 A 1996 HCAPLUS L153 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2001 ACS 2000:262779 HCAPLUS AN133:131352 DN Mass spectrometric identification of proteins released from mitochondria ΤI undergoing permeability transition Patterson, S. D.; Spahr, C. S.; Daugas, E.; Susin, S. A.; Irinopoulou, T.; ΑU Koehler, C.; Kroemer, G. Mammalian Genomics, Amgen Center, Amgen Inc., Thousand Oaks, CA, 91320, CS USA SO Cell Death Differ. (2000), 7(2), 137-144 CODEN: CDDIEK; ISSN: 1350-9047 PB Nature Publishing Group

DT

LA

Journal

English

CC 6-3 (General Biochemistry) Mitochondrial membrane permeabilization is a rate-limiting step of cell AB This process is, at least in part, mediated by opening of the permeability transition pore complex (PTPC). Several sol. proteins from the mitochondrial intermembrane space and matrix are involved in the activation of catabolic hydrolases including caspases and nucleases. authors therefore investigated the compn. of a mixt. of proteins released from purified mitochondria upon PTPC opening. This mixt. was subjected to a novel proteomics/mass spectrometric approach designed to identify a max. of peptides. Peptides from a total of 79 known proteins or genes were identified. In addn., 21 matches with expressed sequence tags (EST) were obtained. Among the known proteins, several may have indirect or direct pro-apoptotic properties. Thus, endozepine, a ligand of the peripheral benzodiazepin receptor (whose occupation may facilitate mitochondrial membrane permeabilization), was found among the released proteins. Several proteins involved in protein import were also released, namely the so-called X-linked deafness dystonia protein (DDP) and glucose-regulated protein 75 (GRP75), meaning that protein import may become irreversibly disrupted in mitochondria of apoptotic cells. In addn., a no. of catabolic enzymes were detected: arginase 1 (which degrades arginine), sulfite oxidase (which degrades S-contg. amino acids), and epoxide hydrolase. Although the functional impact of each of these proteins on apoptosis remains elusive, the present data bank of mitochondrial proteins released upon PTPC opening should help further elucidation of the death process. protein release mitochondria permeability transition apoptosis; database protein mitochondria permeability transition apoptosis; mass spectrometry protein mitochondria permeability transition Proteins, specific or class ΙT RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process) (GRP75 (glucose-regulated protein, 75,000-mol.-wt.); mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis) ΙT Databases (database of proteins released from mitochondria undergoing permeability transition) Neurohormones IT RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process) (endozepines; mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis) IT Apoptosis Mitochondria (mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis) Proteins, general, biological studies IT RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process) (mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis) IT Biological transport (permeation; mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to apoptosis) IT 9000-96-8, Arginase RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process) (1; mass spectrometric identification of proteins released from mitochondria undergoing permeability transition and their relation to

9027-41-2, Hydrolase 9029-38-3, Sulfite oxidase

apoptosis)

9026-81-7, Nuclease

IT

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9048-63-9, Epoxide hydrolase
                                    9054-89-1, Superoxide dismutase
     182637-30-5, X-Linked deafness dystonia protein (human gene DDP1)
     186322-81-6, Caspase
     RL: BOC (Biological occurrence); BPR (Biological process); BIOL
     (Biological study); OCCU (Occurrence); PROC (Process)
        (mass spectrometric identification of proteins released from
        mitochondria undergoing permeability transition and their relation to
        apoptosis)
RE.CNT
        43
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     Expression monitoring for human cytomegalovirus (HCMV) infection, and
     genes possibly involved in mediating the pathology of HCMV infection
     Zhu, Hua; Gingeras, Thomas; Shenk, Thomas
     Affymetrix, Inc., USA
     PCT Int. Appl., 69 pp.
     CODEN: PIXXD2
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Patent

English

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IC
     ICM C12Q001-68
     ICS C12Q001-70; A61B005-00; G01N035-00
     14-3 (Mammalian Pathological Biochemistry)
     Section cross-reference(s): 1, 13
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     PATENT NO.
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                    A1 20000302 WO 1999-US18772 19990820
PI
     WO 2000011218
        W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                         AU 1999-56776
                                                          19990820
     AU 9956776
                     A1
                            20000314
PRAI US 1998-97708
                      19980821
     WO 1999-US18772 19990820
     The invention provides methods, compns., and app. for studying the complex
AΒ
     regulatory relationships among host genes and viruses, in particular HCMV.
     The invention also provides cellular mRNAs whose levels change by a factor
     of four or more after infection with HCMV. Such genes are likely those
     involved in mediating the pathol. of the infected tissues. Thus by
     identifying agents which are able to reverse the induction or repression
     of such genes, one can find candidate therapeutic agents for use in
     treating and or preventing HCMV-caused disease pathologies.
     human cytomegalovirus infection gene expression; therapy drug screening
ST
     HCMV infection
     Thrombospondins
ΙT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (1, gene encoding; expression monitoring for human cytomegalovirus
        (HCMV) infection, and genes possibly involved in mediating the pathol.
        of HCMV infection)
IT
     Cadherins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (11, gene encoding; expression monitoring for human cytomegalovirus
        (HCMV) infection, and genes possibly involved in mediating the pathol.
        of HCMV infection)
     Thrombospondins
ΙT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (2, gene encoding; expression monitoring for human cytomegalovirus
        (HCMV) infection, and genes possibly involved in mediating the pathol.
        of HCMV infection)
ΙT
     Bone morphogenetic proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (2B, gene encoding; expression monitoring for human cytomegalovirus
        (HCMV) infection, and genes possibly involved in mediating the pathol.
        of HCMV infection)
IT
     Proteins, specific or class
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (A20, gene encoding; expression monitoring for human cytomegalovirus
        (HCMV) infection, and genes possibly involved in mediating the pathol.
        of HCMV infection)
IΤ
     Gene, animal
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (AFlq; expression monitoring for human cytomegalovirus (HCMV)
        infection, and genes possibly involved in mediating the pathol. of HCMV
        infection)
IT
     Lipoprotein receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (ARP-1 (apolipoprotein A-I regulatory protein), gene encoding;
        expression monitoring for human cytomegalovirus (HCMV) infection, and
        genes possibly involved in mediating the pathol. of HCMV infection)
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Glycophosphoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (B23, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (BCL7B; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (CDC25; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (COX-2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (CYP2C; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study) (DNA-binding, AP-2, genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Apolipoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (E, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(E2 (ubiquitin-carrier) protein
degrdn. factor, gene encoding; expression monitoring for human
cytomegalovirus (HCMV) infection, and genes possibly involved in
mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GBP (guanylate-binding protein), gene encoding; expression monitoring
for human cytomegalovirus (HCMV) infection, and genes possibly involved
in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study) (GTP-binding, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Chaperonins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (GroES, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Histones

RL: BSU (Biological study, unclassified); BIOL (Biological study) (H2A, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Histocompatibility antigens

RL: BSU (Biological study, unclassified); BIOL (Biological study) (HLA-E, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (HOX7; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Annexins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (I, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study) (IRF (iron regulatory factor), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (IRF-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (IRF-2 (interferon regulatory factor 2), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (ISGF-2 (interferon-stimulated gene factor 2), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (Id2 (inhibitor of differentiation 2), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (KIAA0107; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Lipoprotein receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (LDL, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (MAD-3; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Proteins, specific or class

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(MxA, gene encoding; expression monitoring for human cytomegalovirus
(HCMV) infection, and genes possibly involved in mediating the pathol.
of HCMV infection)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (NF-IL6 (nuclear factor interleukin 6), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Transcription factors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (NF-.kappa.B (nuclear factor .kappa.B), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(RB1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT Ribonucleoproteins RL: BSU (Biological study, unclassified); BIOL (Biological study) (RNA U2-contg., genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΙT RL: BSU (Biological study, unclassified); BIOL (Biological study) (Ro/SSA, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT Peptide receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (SSR (signal peptide sequence receptor), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT Steroid receptors Thyroid hormone receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (TR3 (thyroid/steroid hormone receptor 3), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΙŢ Initiation factors (protein formation) RL: BSU (Biological study, unclassified); BIOL (Biological study) (Tif (translation initiation factor), genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΤТ Gene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (XE169; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΙT (anal. of gene expression in cells of; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΙT Epithelium Fibroblast Lymphocyte Neuron (anal. of gene expression in; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Proteins, specific or class IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (arginine-contg., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT Antiqens RL: BSU (Biological study, unclassified); BIOL (Biological study) (autoantigens, Sp100, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Antigens ΙT RL: BSU (Biological study, unclassified); BIOL (Biological study) (cPLA2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Proteoglycans, biological studies IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (chondroitin sulfate-contg., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in

mediating the pathol. of HCMV infection)

RL: BSU (Biological study, unclassified); BIOL (Biological study)

Glycoproteins, specific or class

IT

(dystrophin-assocd., 35,000-mol.-wt., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding AMLle protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding CSaids binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding ERCC5 excision repair protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding HLA-DR assoc. protein 1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding MITF; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding MN1 protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding TFPI-2; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding TIMP3; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding acid finger protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding blood-coagulation factor VII; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding corticotropin-releasing factor binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding decay-accelerating factor; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding extracellular protein Si-5; expression monitoring for human

cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding integral membrane protein E16; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding lipoprotein-assocd. coagulation inhibitor; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding lissencephaly protein LIS1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding mitF; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding p53-binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding platelet-endothelial tetraspan antigen 3; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding polyA-binding protein; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding pre-B cell enhancing factor; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein 6-16; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein 9-27; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein MxB; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding protein PML-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Gene, animal

RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding smooth muscle protein SM22; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in

mediating the pathol. of HCMV infection) IT Gene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding ubiquitin-like protein GdX; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT Gene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (encoding .beta.-migrating plasminogen activator inhibitor 1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT Human herpesvirus 5 (expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Oligonucleotides ΙT RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT **cDNA** RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ITEST (expressed sequence tag) RL: BSU (Biological study, unclassified); BIOL (Biological study) (expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) IT (expression; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Glycoproteins, specific or class IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (fibulins, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΙT Drug screening (for agents against HCMV infection; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Gene, animal IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (gas-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) ΙŢ Activin receptors Androgen receptors Aromatic hydrocarbon receptors Calponin Cyclins Endoglins Enkephalins Ferritins Filamin G protein-coupled receptors Glucocorticoid receptors Insulin-like growth factor I receptors Integrins Interleukin 11 Interleukin 6 Interleukin 7 Myosins RANTES (chemokine) Tropomyosins

Troponins

TΤ

TΤ

IT

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ΙT

IT

IT

ΙT

ΤT

ΙT

IT

Tumor necrosis factor receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) G proteins (quanine nucleotide-binding proteins) RL: BSU (Biological study, unclassified); BIOL (Biological study) (gene rab, 13, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Collagens, biological studies Growth factor receptors Heat-shock proteins Insulin-like growth factor-binding proteins Interferons Laminins Orphan receptors Splicing factors Transcription factors RL: BSU (Biological study, unclassified); BIOL (Biological study) (genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Insulin-like growth factor receptors RL: BSU (Biological study, unclassified); BIOL (Biological study) (qlycoprotein IGF-BP-3 (insulin-like growth factor binding protein 3), gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Proteins, specific or class RL: BSU (Biological study, unclassified); BIOL (Biological study) (ligand-binding, genes encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Annexins RL: BSU (Biological study, unclassified); BIOL (Biological study) (lipocortins, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Proteins, specific or class RL: BSU (Biological study, unclassified); BIOL (Biological study) (nucleotide-binding, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Diagnosis (of HCMV infection; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Gene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (p27; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Proteins, specific or class RL: BSU (Biological study, unclassified); BIOL (Biological study) (pentraxins, II, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Gene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (pim-1; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection) Gene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (staf50; expression monitoring for human cytomegalovirus (HCMV)

infection, and genes possibly involved in mediating the pathol. of HCMV

infection)

## IT Computer program

(use in anal. of gene expression; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Nucleic acid hybridization

(use in mRNA anal.; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Infection

(viral; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Platelet-derived growth factor receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.alpha., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Actins Tubulins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.alpha.-, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Interferons

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta., gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Tubulins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta.-, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Transforming growth factor receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.beta.-transforming growth factor type V, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT Transforming growth factor receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(.beta.-transforming growth factor, type III, gene encoding; expression
monitoring for human cytomegalovirus (HCMV) infection, and genes
possibly involved in mediating the pathol. of HCMV infection)

IT Actins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (.gamma.-actins, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT 39391-18-9

RL: BSU (Biological study, unclassified); BIOL (Biological study) (2, gene encoding; expression monitoring for human cytomegalovirus (HCMV) infection, and genes possibly involved in mediating the pathol. of HCMV infection)

IT 80449-02-1, Tyrosine kinase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Hyl, gene encoding; expression monitoring for human cytomegalovirus
(HCMV) infection, and genes possibly involved in mediating the pathol.
of HCMV infection)

9001-12-1, Collagenase 9001-40-5, IT 9000-83-3, Atpase 9001-58-5, Isocitrate dehydrogenase Glucose-6-phosphate dehydrogenase 9001-84-7, Phospholipase a2 9014-51-1, Indoleamine 2,3-dioxygenase 9023-44-3, Tryptophanyl-tRNA synthetase 9026-30-6, 9015-81-0 9029-17-8, Oligoadenylate synthetase 9028-86-8, Aldehyde dehydrogenase 9029-80-5, Histamine Pyrroline 5-carboxylate reductase 9030-21-1, Purine nucleoside phosphorylase N-methyltransferase

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9031-72-5, Alcohol dehydrogenase
     9031-71-4, Alanyl tRNA synthetase
     9031-94-1, Aminopeptidase
                                 9035-51-2, Cytochrome p450, biological studies
                                 11096-26-7, Erythropoietin
                                                              37289-19-3, GTP
     9059-25-0, Lysyl oxidase
                                                             79747-53-8, Protein
                        65802-86-0, Prostacyclin synthase
     cyclohydrolase I
                            80295-65-4, Complement factor H 81181-72-8,
     tyrosine phosphatase
                                     98037-52-6, Abl protein (tyrosine) kinase
     .gamma.-Glutamyl carboxylase
     117628-82-7, Follistatin 140699-00-9, Pro-galanin 140879-24-9,
                  141436-78-4, Protein kinase c
                                                   154835-90-2,
     Proteasome
                      176591-29-0, Rip protein kinase
     Adrenomedullin
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (gene encoding; expression monitoring for human cytomegalovirus (HCMV)
        infection, and genes possibly involved in mediating the pathol. of HCMV
        infection)
     260242-78-2, 1: PN: WO0011218 PAGE: 38 unclaimed DNA
     RL: PRP (Properties)
        (unclaimed nucleotide sequence; expression monitoring for human
        cytomegalovirus (HCMV) infection, and genes possibly involved in
        mediating the pathol. of HCMV infection)
     9014-08-8, Enolase
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (.gamma.-2, gene encoding; expression monitoring for human
        cytomegalovirus (HCMV) infection, and genes possibly involved in
        mediating the pathol. of HCMV infection)
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     Gene probes used for genetic profiling in healthcare screening
     and planning
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     PCT Int. Appl., 745 pp.
     CODEN: PIXXD2
     Patent
     English
     ICM C12Q001-68
     ICS C07K016-18
     3-1 (Biochemical Genetics)
     Section cross-reference(s): 9, 13, 14
FAN.CNT 2
     PATENT NO.
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                                                              DATE
                             19991216
                                            WO 1999-GB1780
                                                              19990604
     WO 9964627
                       Α2
             AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
                                                                           TJ,
                     TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
             TM, TR,
                     TJ, TM
             MD, RU,
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
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ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI GB 1998-12099
                      19980606
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                      19980805
     GB 1998-17097
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     GB 1998-17200
                      19980808
     GB 1998-17632
                      19980814
     GB 1998-17943
                      19980819
     There is considerable evidence that significant factor underlying the
AB
     individual variability in response to disease, therapy and prognosis lies
     in a person's genetic make-up. There have been numerous examples relating
     that polymorphisms within a given gene can alter the functionality of the
     protein encoded by that gene thus leading to a variable physiol. response.
     In order to bring about the integration of genomics into medical practice
     and enable design and building of a technol. platform which will enable
     the everyday practice of mol. medicine a way must be invented for the DNA
     sequence data to be aligned with the identification of genes central to
     the induction, development, progression and outcome of disease or physiol.
     states of interest. According to the invention, the no. of genes and
     their configurations (mutations and polymorphisms) needed to be identified
     in order to provide crit. clin. information concerning individual
     prognosis is considerably less than the 100,000 thought to comprise the
     human genome. The identification of the identity of the core group of
     genes enables the invention of a design for genetic profiling
     technologies which comprises of the identification of the core group of
     genes and their sequence variants required to provide a broad base of
     clin. prognostic information - "genostics". The "Genostic.RTM."
     profiling of patients and persons will radically enhance the
     ability of clinicians, healthcare professionals and other parties to plan
     and manage healthcare provision and the targeting of appropriate
     healthcare resources to those deemed most in need. The use of this
     invention could also lead to a host of new applications for such
     profiling technologies, such as identification of persons with
     particular work or environment related risk, selection of applicants for
     employment, training or specific opportunities or for the enhancing of the
     planning and organization of health services, education services and
     social services.
ST
     probe genetic profiling healthcare screening
ΙT
     Ankyrins
     Calmodulins
     Notch (receptor)
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2 and 3, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Angiotensin receptors
     Fibrillins
     Neurofibromin
     Presenilins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening
        and planning)
IT
     Inositol 1,4,5-trisphosphate receptors
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P-glycoproteins
    Uncoupling protein
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
    Chloride channel
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 5 and KB, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
ΙT
    Calbindins
    Keratins
    Laminin receptors
    Synaptobrevins
    Syntaxins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare
      screening and planning)
ΙT
    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (10, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
ΙT
    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (11 and 2 and 3 and 9, core group of disease-related genes;
        gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Interleukin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (12, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (13, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
    Keratins
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (14, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
    Myosins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (15 and 5A and 6 and 7A and cardiac, core group of disease-
      related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Keratins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (15, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Keratins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

(16, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) TT Keratins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (17, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Antigens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (17-1A, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Keratins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (18, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Melatonin receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (1A and 1B, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Tropomyosins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (1.alpha. and 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Calculi, renal (2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Bone morphogenetic proteins Synaptobrevins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Bone morphogenetic proteins IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (2B, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Cyclin dependent kinase inhibitors IT (3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Transcription factors ΙT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Keratins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Keratins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (5, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

IT

Laminins

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(Biological study); USES (Uses)
        (5, .alpha.3 and .beta.3 and .gamma.2, core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1A, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1B, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1C, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1D, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1E, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1F, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
TT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT2A, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT2B, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
ΙT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT2C, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT3, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
ΙT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     5-HT receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT5, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
TT
     5-HT receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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ΙT

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IT

(Biological study); USES (Uses)

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(Biological study); USES (Uses)
   (5-HT6, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
5-HT receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (5-HT7, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Bone morphogenetic proteins
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (6, core group of disease-related genes; gene probes used for genetic
 profiling in healthcare screening and
   planning)
Bone morphogenetic proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (7, core group of disease-related genes; gene probes used for genetic
   profiling in healthcare screening and planning)
Bone morphogenetic proteins
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (8, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A, A4, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Chromogranins
Cyclins
Glycophorins
Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A-I, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Apolipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A-II, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Heat-shock proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Al and A2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ABC (ATP-binding cassette-contg.), 7, core group of disease-related
   genes; gene probes used for genetic profiling in
   healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(ABP (androgen-binding protein), core group of disease-related genes;
   gene probes used for genetic profiling in
   healthcare screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ADP/ATP carrier, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (AIM1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (AP-2 (activator protein 2), core group of disease-related genes; gene
   probes used for genetic profiling in healthcare
   screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (APC, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ATOH1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Apaf-1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Adenosine receptors
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A1, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A2b, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A2a, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Adenosine receptors
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A3, core group of disease-related genes; gene probes used for genetic
 profiling in healthcare screening and
   planning)
Apolipoproteins
Cyclins
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (B, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and
     planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B-lym, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B-raf, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΤ
     Glycophosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B23, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BCR, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BRCA1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BRCA1-assocd. RING domain gene 1, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BRCA2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BRCD1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BRCD2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Bagpipe homeobox, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening
        and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Bcl-x, core group of disease-related genes; gene probes used
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for genetic profiling in healthcare screening and

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planning)
IT
    Disease, animal
        (Beckwith-Wiedemann syndrome, gene BWR1A, core group of disease-related
        genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Bradykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Bradykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
     Troponins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Chemokine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-C CKR-2 (cysteine-cysteine chemokine receptor 2), core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Chemokine receptors
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-C CKR-3 (cysteine-cysteine chemokine receptor 3), core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Chemokine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-C CKR-5 (cysteine-cysteine chemokine receptor 5), core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-I, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-II, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-III, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-reactive, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Complement receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C5a, core group of disease-related genes; gene probes used for genetic
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profiling in healthcare screening and planning)

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IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CBF (core-binding factor), .alpha.1 and .alpha.2 and .beta., core
        group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD100, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD101, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD103, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD107, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD108, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD109, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΤ
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD110, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD111, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD112, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD113, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
      planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(CD114, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD115, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD116, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD117, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD118, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD119, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
    Antigens
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD12, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΤ
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD120, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IΤ
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD121, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD123, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD124, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD125, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (CD126, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD127, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD128, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD129, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD130, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD131, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD132, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD133, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD134, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD135, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD136, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(CD137, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Antigens
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD138, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD139, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
    Antigens
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD140, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
     planning)
    Antigens
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD141, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
    Antigens
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD142, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD143, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Antigens
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD144, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
    Antigens
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD145, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IΤ
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD147, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD148, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD149, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (CD150, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD151, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD153, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD155, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD156, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD157, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD158, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
ΤT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD159, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD160, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD161, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD162, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
    Antigens
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(CD163, core group of disease-related genes; gene probes used

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for genetic profiling in healthcare screening and
        planning)
    Antigens
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD164, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD165, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD166, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD17, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD24, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD27, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΨ
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD33, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD37, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD39, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD40-L (antigen CD40 ligand), core group of disease-related
        genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD41, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
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IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD42, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD47, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD48, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD52, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD53, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD57, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD6, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD60, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IΤ
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD63, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD65, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD66, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD67, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (CD70, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD72, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD73, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD76, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
    Antiqens
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD77, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
    Antigens
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD78, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
     planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD79, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD83, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD84, core group of disease-related genes; gene probes used for
       qenetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD85, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD89, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD9, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
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ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD90, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD91, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD92, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Antigens
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD93, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD94, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD96, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD97, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD98, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD99, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CDX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CREB (cAMP-responsive element-binding), core group of disease-related
        genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (CREB-binding, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CRX, core group of disease-related genes; gene probes used for genetic
      profiling in healthcare screening and planning)
     Colony stimulating factor receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CSF-3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP11A1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP11B1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP11B2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP17, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP19, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP1A1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP1A2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP1B1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
TΨ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP21, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(CYP24, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP27, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP27B1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A13, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
     planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A3, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
     planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A6V2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A7, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2B6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C18, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C19, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
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planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2D6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2E1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2F1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2J2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
TΤ
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A7, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4A11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4B1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4F2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
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ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4F3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP51, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP5A1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP7A, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Phagocyte
        (Chediak-Higashi syndrome, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare
     screening and planning)
IT
    Apolipoproteins
    Cyclins
    Immunoglobulins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and
     planning)
IT
    Steroid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DAX-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DCC, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DLX1 through DLX6, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening
        and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DMBT1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DMC1, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and

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planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DMPK, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DNA damage-binding DDB1 and DDB2, core group of disease-related genes;
       gene probes used for genetic profiling in
       healthcare screening and planning)
    Enzymes, biological studies
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DNA helicases, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DNA-binding, zinc finger-contg., 198 and 2 and 3 and HRX, core group
     of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Prostanoid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DP, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DSS1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Hedgehog protein
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Desert, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Dopamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D1, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and
       planning)
ΙT
    Dopamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Dopamine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Dopamine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Dopamine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D5, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
    Calbindins
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (D9k, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Apolipoproteins
Cadherins
Immunoglobulins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (E, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Selectins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (E-, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EFMR, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ELF-1 (Eph ligand family-1), core group of disease-related
   genes; gene probes used for genetic profiling in
   healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ELK1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ELK2, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and
  planning)
Cadherins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EPM2A, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
  planning)
Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP1, core group of disease-related genes; gene probes used for genetic
   profiling in healthcare screening and planning)
Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP2, core group of disease-related genes; gene probes used for genetic
   profiling in healthcare screening and planning)
Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP3, core group of disease-related genes; gene probes used for genetic
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profiling in healthcare screening and planning)

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IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ERBAL2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ERCC5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ERG, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Endothelin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ETA, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Endothelin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ETB, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (EVII, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (EWS, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (EYA1 and EYA2 and EYA3, core group of disease-related genes; gene
      probes used for genetic profiling in healthcare
        screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (EYCL3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Cyclins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (F, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΨ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FABP (fatty acid-binding protein), core group of disease-related
      genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FDGDY, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FKHL10 and FKHL14 and FKHL7, core group of disease-related genes; gene
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probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FKHR, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Prostanoid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FP, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FRAXA and FRAXE and FRAXF, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Anemia (disease)
        (Fanconi's, complementation group A and B, core group of disease-
      related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
    Anemia (disease)
        (Fanconi's, complementation group C, core group of disease-related
        genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Flightless II, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and
        planning)
IT
    Muscular dystrophy
        (Fukuyama, gene FCMD, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening
        and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (G/T mismatch, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Immunoglobulins
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (G2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Transport proteins
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GABA transporter, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GADD45, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GDI (GDP dissocn. inhibitor), core group of disease-related genes;
        gene probes used for genetic profiling in
        healthcare screening and planning)
     Gene, animal
IT
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (GLI1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Gene, animal
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GLI2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GLI3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    G proteins (guanine nucleotide-binding proteins)
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GNAO1 and GNB3 and GNG5 and GNAQ, core group of
       disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Galanin, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR1 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR2 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
TΨ
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR3 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR4 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
TΨ
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR5 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR6 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
       planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR7 subunit, core group of disease-related genes; gene probes used
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for genetic profiling in healthcare screening and

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planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Goosecoid GSC, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare
        screening and planning)
     G proteins (guanine nucleotide-binding proteins)
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gil (adenylate cyclase-inhibiting, 1), core group of disease-related
     genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     G proteins (guanine nucleotide-binding proteins)
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gi2 (adenylate cyclase-inhibiting, 2), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     G proteins (quanine nucleotide-binding proteins)
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gi3 (adenylate cyclase-inhibiting, 3), core group of disease
        -related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
ΙT
     G proteins (guanine nucleotide-binding proteins)
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gs (adenylate cyclase-stimulating), GNAS1 and GNAS2 and GNAS3 and
      GNAS4, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IΤ
     Histones
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IΤ
     Histones
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Histones
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Histones
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HAND1 and HAND2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
TΤ
     Lipoprotein receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HDL, core group of disease-related genes; gene probes used for genetic
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profiling in healthcare screening and planning)

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Transcription factors
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HIF-1 (hypoxia-inducible factor 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HIF-2 (hypoxia-inducible factor 2), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-B assocd. transcript 1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Histocompatibility antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-DP, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Histocompatibility antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-DQ, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Histocompatibility antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-DR, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLXB9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     High-mobility group proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HMG-C and HMG-Y, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     High-mobility group proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HMG1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     High-mobility group proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HMG2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HNF-3B (hepatocyte nuclear factor 3B), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Transcription factors
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

IT

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Gene, animal

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(Biological study); USES (Uses)
   (HNF-4 (hepatocyte nuclear factor 4), core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOX11, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA10, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA11, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA12, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA13, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA3, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA6, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA8, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXA9, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXB2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXB3, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
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Heat-shock proteins

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXB6, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXB7, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXB9, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXC13, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXC4, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXC9, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXD1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXD10, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXD13, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXD3, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXD8, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HOXD9, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Blood-coagulation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HRG (histidine-rich glycoprotein), core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HSP 60, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Heat-shock proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HSP 70, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Heat-shock proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HSP 90, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
DNA formation factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HSSB, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HTS1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HVBS1 and HVBS6, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Hairless, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Blood coagulation
   (Hermansky-Pudlak syndrome, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HoxA1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HoxA4, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HoxA5, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HoxA7, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (HoxB1, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxC8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxD12, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxD4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Histamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Histamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Histamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Annexins
    Synaptotagmin
    Troponins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (I, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TT
    Prostanoid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (I2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Cell adhesion molecules
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICAM-1 (intercellular adhesion mol. 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(ICAM-2 (intercellular adhesion mol. 2), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Cell adhesion molecules
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICAM-3 (intercellular adhesion mol. 3), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICCA, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IGER and IGES, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Synaptotagmin
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (II, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IKBL, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Phosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IRS-1 (insulin receptor substrate 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Immunoglobulin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IgE type II, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Immunoglobulin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IgG type I, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Immunoglobulin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IgG type IIA, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Ikaros, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Hedgehog protein
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Indian, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Immunoglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (J protein, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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Potassium channel
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (J1 and J11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Blood-group substances
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (K (Kell), core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Keratins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (K7, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (KAII, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Cyclin dependent kinase inhibitors
        (KIP2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Potassium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Kv1 (potassium channel-forming, voltage-regulated, 1), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Selectins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L-myc, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L13A, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L17, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Sialoglycoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LAMP-1 (lysosome-assocd. membrane protein 1), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Sialoglycoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LAMP-2 (lysosome-assocd. membrane protein 2), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
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Lipoprotein receptors
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LDL, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TT
    Hormone receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LH-releasing hormone, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LIM homeobox proteins 1 and 2 and 3 and 4, core group of
       disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LIM homeobox transcription factor 1.beta., core group of
       disease-related genes; gene probes used for genetic profiling
       in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LIM-domain only proteins 1 and 2 and 3 and 4, core group of
       disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LMP-2 (latent-infection membrane protein 2), core group of
       disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LPP, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LYDMA, LMP-7, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
    Kidney, disease
        (Lowe's syndrome, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
    Apolipoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Lp(a), core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Immunoglobulins
    Laminins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MAD homolog 2 and 3 and 4, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
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Transcription factors

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MADS box transcription-enchancer factor 2A and 2B and 2C and 2D, core
   group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MAX-interacting protein 1, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MCC, core group of disease-related genes; gene probes used for genetic
 profiling in healthcare screening and planning)
Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MCP (membrane cofactor protein), core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MHC (major histocompatibility complex), class I, A and B and C, core
   group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Histocompatibility antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MHC (major histocompatibility complex), class II, complementation
   group A and B and C and D, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Mucins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MUC2 and MUC5AC and MUC6, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (MUM1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Msh homoeobox homolog 1 and 2, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Muellerian-inhibiting hormone, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Dwarfism
   (Mulibrey, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Myf-3 (myogenic factor 3), core group of disease-related genes; gene
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probes used for genetic profiling in healthcare screening and

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planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Myf-4 (myogenic factor 4), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Transcription factors
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Myf-5 (myogenic factor 5), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Muscarinic receptors
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Muscarinic receptors
ΤT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M5, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Cadherins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-CAM, N-CAM-2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-CAM, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-CAM-120, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-ras, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(NF-E1 (nuclear factor erythroid 1), core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Neurofilament proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NF-H, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Neurofilament proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NF-L, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Neurofilament proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NF-M, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NF-.kappa.B (nuclear factor .kappa.B), core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NFATc (nuclear factor, activated T-cell, cytosolic), core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NFATp (nuclear factor, activated T-cell, pre-existing), core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Tachykinin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NK1, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Tachykinin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NK2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Tachykinin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NK3, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NMDA-binding, type 1, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (NMDA-binding, type 2A and 2B and 2C and 2D, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Atrial natriuretic peptide receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(NPR-A, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Atrial natriuretic peptide receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NPR-B, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
        (Norrie's disease, gene NDP, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Notch ligand-jagged 1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
       screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Orthodenticle homolog 1 and 2, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Cadherins
    Selectins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
    Protamines
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Protamines
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PABP (poly(A)-binding protein), 2, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAC7, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAC8, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAX3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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Gene, animal

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (PAX6, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Cell adhesion molecules
Cell adhesion molecules
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (PECAM-1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (PHEX, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (PMP-22 (peripheral myelin protein, 22,000-mol.-wt.), core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (POU box, 1 and 3 and 4, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (PROX1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (PVR (poliovirus receptor), core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Patched homolog, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Pax2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Prophet of Pit1, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Purinoceptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (P2U, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Purinoceptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (P2X, 1 through 7, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Purinoceptors
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (P2Y, 11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Purinoceptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2Y, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (R-binding, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAG1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAG2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Retinoic acid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAR-.alpha., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Retinoic acid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAR-.beta., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Retinoic acid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAR-.gamma., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    DNA formation factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RF-A (replication factor A), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
    DNA formation factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RF-C (replication factor C), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
    Retinoid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RGR (retinal G protein coupled receptor), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RIGUI, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Retinoid X receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RXR.alpha., core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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IT
    Retinoid X receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RXR.beta., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Retinoid X receptors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RXR.gamma., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rathke pouch homeobox, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rb, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Blood-group substances
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rh, CcEe antigens, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rim, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S-100, Al through A9 and B and P, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Ribosomal proteins
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S19, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S6, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S9, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(SA homolog, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SAA (serum amyloid A), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SAP (SLAM-assocd. protein), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
    Glycoproteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SAP (serum amyloid, P), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Glycophosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SCP2 (hydroxy steroid-carrier protein 2), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Chemokines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SDF-1.alpha. (stromal-derived factor-1.alpha.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
    Chemokines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SDF-1.beta. (stromal-derived factor-1.beta.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SF-1 (steroidogenic factor 1), core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Globulins, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SHBG (sex hormone-binding globulin), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
TΥ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SLAM (signaling lymphocyte activation mol.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Guanine nucleotide exchange factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOS1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX10, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX11, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX4, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX9, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Surfactant proteins (pulmonary)
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-A, Al and A2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Surfactant proteins (pulmonary)
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-B, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Surfactant proteins (pulmonary)
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-C, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Surfactant proteins (pulmonary)
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-D, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSEA-1 (stage-specific embryonic antigen 1), core group of
       disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
    Somatostatin receptors
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Somatostatin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Somatostatin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Somatostatin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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Somatostatin receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSX1 and SSX2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ST3, core group of disease-related genes; gene probes used for genetic
      profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ST8, core group of disease-related genes; gene probes used for genetic
      profiling in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Transcription factors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Sal-like 1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Slug, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Sry (sex-detg. region of chromosome Y), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Troponins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T, core group of disease-related genes; gene probes used for genetic
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profiling in healthcare screening and planning)

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IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Leukemia
        (T-cell, acute, gene TAL1 and TAL2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TAPA-1 (target of antiproliferative antibody, 1), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TATA-binding protein-assocd., core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TEL, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TKCR, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
     Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TRC8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TRP-1 (tyrosinase-related protein 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(TSG101, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
ΙT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TUPLE1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Tap1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Tap2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
TΤ
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Thy-1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Tip-assocd., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Protein receptors
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Toll-like receptor 4, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
       planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Twist homolog, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Usher syndrome gene USH2A, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
    Cell adhesion molecules
TT
    Cell adhesion molecules
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (VCAM-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Vasopressin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (V1, 1A and 1B, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Vasopressin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (V2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (WHSC1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Transcription factors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (WT1 (Wilms' tumor suppressor 1), core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Wnt inhibitory factor, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Disease, animal
        (Wolfram syndrome, gene WFS1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (X-specific transcript, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XPA, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XPB, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XPC, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XPD, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XPE, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XPF, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XRCC9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Neuropeptide Y receptors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Y1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Neuropeptide Y receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Y2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
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Glycoproteins, specific or class

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Proteins, specific or class

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ZP1 (zona pellucida, 1), core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Glycoproteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ZP2 (zona pellucida, 2), core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Sialoglycoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ZP3 (zona pellucida, 3), core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Eye, disease
   (achromotopsia gene ACHM2, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (acidic amino acid-transporting, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (acylcarnitine-carnitine-transporting, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (adaptins, .beta.3A, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (adducins, .alpha. and .beta., core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Brain, disease
   (adrenoleukodystrophy, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Behavior
   (aggressive, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Amino acids, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (alkaptonuria, gene AKU, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (amino acid-transporting, gene SLC1A6, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (amyloid .beta.-binding APBB1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (amyloid .beta.-like, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
TΨ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (anion-exchanging proteins, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (antigens CD11b, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (antigens CD11c, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (antigens Mac-1 (macrophage 1), core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (apical, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (apoptosis-regulating, ligand 1 and apoptosis-inducing
        factor, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (apoptosis-regulating, neuronal apoptosis-inhibitory, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Porins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (aquaporins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (archaete-scute homolog 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (aryl hydrocarbon receptor nuclear-transporting, core group of
        disease-related genes; gene probes used for genetic profiling
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in healthcare screening and planning)

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IT
    Receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (aspartate, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (astrotactins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Nervous system
        (ataxia telangiectasia, genes ATD and ATM, core group of
       disease-related genes; gene probes used for genetic profiling
       in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ataxins 1 and 2 and 3, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (atrophin 1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (attractins, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (autoimmune regulator AIRE, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (axl, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (azoospermia factorl 1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
IT
    Phosphoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (band 4.1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Phospholipoproteins
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (band 4.2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Phospholipoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (band 7.2b, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (bcl-2, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning) IT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bcr-c-abl, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bestrophins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Transport proteins IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bile acid-sodium-cotransporting, 1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class TΤ RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bile salt-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Biotechnology (biochips, design of GENOSTIC genechip device; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (blue cone pigment, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Bone morphogenetic proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bone morphogenetic protein 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Bone morphogenetic proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bone morphogenetic protein 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Bone morphogenetic proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (bone morphogenetic protein 5, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Neurotrophic factor receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (brain-derived, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (c-Ha-ras, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal ΤT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (c-Ki-ras2, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning)

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Gene, animal

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Gene, animal

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-R-ras, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-abl1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-abl2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-akt1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-akt2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-emsl, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-erb, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-erb2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-erbA, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-ets-1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-ets-2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-fes, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-fgr, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (c-fos, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΨ
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-fps, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-grol, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-gro2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-int1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-int3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-int4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-jun, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-kit, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-lco, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-lyn, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-maf, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mas1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(c-mcf2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mel, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mos, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mpl, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-myb, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-myc, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ovc, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-raf, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
TΤ
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ralb, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-rel, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ros, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-sis, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ski, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(c-sno, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-spil, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-src, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-tim, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (calcium, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (calcium-sodium-exchanging, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cardiac-specific homeobox CSX, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (carnitine-transporting, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cartilage oligomeric matrix, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cartilage-hair hypoplasia, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Phosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (caveolins, 3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cellubrevins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ceroid lipofuscinosis neuronal 2-6, core group of disease-related
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genes; gene probes used for genetic profiling in healthcare

screening and planning) ΙT Cytokine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (chemokine, fusin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Cholecystokinin receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cholecystokinin B, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Biliary tract (cholestasis, intrahepatic, gene FIC1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cholesterol ester-exchanging, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) TΤ Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (chondritin sulfate A-placental, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Eye, disease (choroideremia, gene CHM, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Neurotrophic factor receptors IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ciliary, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) TΤ Atrial natriuretic peptide receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (clearance, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IΤ RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cleavage signal-1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Palate (cleft, gene CPX, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) TT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (clk1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cochlins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Phosphoproteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(cofilins, core group of disease-related genes; gene probes used for

(Biological study); USES (Uses)

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genetic profiling in healthcare screening and planning)
TΤ
     Protein receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (collagen, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (collapsins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (contactins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Genetic methods
        (core genes for design and manuf. of GENOSTIC genechip device; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙT
     Bone, disease
     Headache
     Hemochromatosis
     Inflammation
     Mental disorder
     Muscle, disease
     Neoplasm
     Niemann-Pick disease
     Skin, disease
        (core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     ACTH receptors
     Albumins, biological studies
     Amelogenins
     Amyloid precursor proteins
     Androgen receptors
     Aromatic hydrocarbon receptors
     Arrestins
     Benzodiazepine receptors
     CD1 (antigen)
     CD14 (antigen)
     CD19 (antigen)
     CD2 (antigen)
     CD20 (antigen)
     CD22 (antigen)
     CD26 (antigen)
     CD28 (antigen)
     CD3 (antigen)
     CD34 (antigen)
     CD36 (antigen)
     CD38 (antigen)
     CD4 (antigen)
     CD40 (antigen)
     CD44 (antigen)
     CD45 (antigen)
     CD5 (antigen)
     CD59 (antigen)
     CD68 (antigen)
     CD69 (antigen)
     CD7 (antigen)
     CD8 (antigen)
     CD80 (antigen)
     CD86 (antigen)
     CFTR (cystic fibrosis transmembrane conductance regulator)
     CTLA-4 (antigen)
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Calcitonin gene-related peptide receptors

Calcitonin receptors Calnexin Calretinin Cannabinoid receptors Carcinoembryonic antigen Cell adhesion molecules Ciliary neurotrophic factor Clathrin Clusterin Corticosteroid receptors Corticotropin releasing factor receptors Cyclophilins Desmins Dynamin Dyneins Dystrophin Elastins Epidermal growth factor receptors Erythropoietin receptors FSH receptors Fas antigen Ferritins Fibrinogens Fibronectins GTPase-activating protein Gastrin-releasing peptide receptors Gelsolin Glucagon receptors Glucagon-like peptide-1 receptors Glucocorticoid receptors Gonadotropin receptors Gonadotropin-releasing hormone receptor Growth factor receptors Growth hormone receptors Growth hormone-releasing hormone receptors Hemoglobins Hemopexins Hepatocyte growth factor Heregulins Immunoglobulin receptors Insulin receptors Insulin-like growth factor I receptors Insulin-like growth factor II receptors Interleukin 1 receptor antagonist Interleukin 1 receptors Interleukin 10 Interleukin 11 Interleukin 13 Interleukin 1.alpha. Interleukin 1.beta. Interleukin 3 Interleukin 3 receptors Interleukin 4 Interleukin 4 receptors Interleukin 5 Interleukin 5 receptors Interleukin 6 Interleukin 6 receptors Interleukin 7 Interleukin 7 receptors Interleukin 8 Interleukin 8 receptors Interleukin 9 Intrinsic factors Invariant chain (class II antigen)

LFA-3 (antigen)

Lactoferrins Leptin receptors Leukemia inhibitory factor Leukemia inhibitory factor receptors Leukosialin Lymphotoxin Macrophage colony-stimulating factor receptors Macrophage inflammatory protein 2 Metallothioneins Mineralocorticoid receptors Moesins Monocyte chemoattractant protein-1 Multidrug resistance proteins Myelin PO protein Myelin basic protein Myoglobins Nerve growth factor receptors Neurotensin receptors Nicotinic receptors Opioid receptors Osteocalcins Osteonectin Osteopontin Oxytocin receptors Parathyroid hormone receptors Parvalbumins Pituitary adenylate cyclase-activating polypeptide receptor Platelet-activating factor receptors Platelet-derived growth factor receptors Platelet-derived growth factors Prion proteins Progesterone receptors Prolactin receptors Proliferating cell nuclear antigen Prostanoid receptors Proteolipid protein Radixin Ras proteins Rhodopsins Ryanodine receptors Secretin receptors Stem cell factor Sulfonylurea receptors Synaptophysin TCR .alpha..beta. (receptor) Talin Tau factor Tenascins Thrombin receptors Thrombomodulin Thrombospondins Thromboxane receptors Thyroglobulin Thyrotropin receptors Thyrotropin-releasing hormone receptors Titins Transcortins Transferrin receptors Transferrins Transthyretin Tubulins Tumor necrosis factor receptors Tumor necrosis factors Urokinase-type plasminogen activator receptors

VIP receptors

Vasopressin receptors

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Villin
     Vimentins
     Vinculin
     Vitamin D receptors
     neu (receptor)
     p53 (protein)
     .alpha.-Fetoproteins
     .alpha.1-Acid glycoprotein
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΨ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (corticosteroid-binding, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cortisol, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cot, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (crk, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (crk1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cubilins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Ion channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cyclic nucleotide gated .alpha.3, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IΤ
     Phosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cyclins C, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cysteine-rich, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cystinosins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
TT
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

```
(Biological study); USES (Uses)
        (cytokine-suppressive antiinflammatory drug-binding 1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (defender against cell death 1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (deleted in azoospermia, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
TT
    Mutation
        (deletion, detection of; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Mental disorder
        (dementia, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Sialoglycoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dentin sialophosphoprotein, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
TΤ
    Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (deoxycorticosterone, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
    Allele frequency
     Genetic polymorphism
        (detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (diaphanous 1 and 2, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (diastrophic dysplasia sulfate-transporting, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TΤ
    Cardiovascular system
     Digestive tract
     Endocrine system
     Respiratory tract
        (disease, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Head
        (disease, holoprosencephaly, gene HPE1 and HPE2 and HPE3 and HPE4, core
        group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Behavior
     Development, mammalian postnatal
     Immunity
    Metabolism, animal
     Sexual behavior
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(disorder, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
TΤ
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dopamine-transporting, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙŢ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (doublecortins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Enzymes, properties
     RL: ANT (Analyte); PRP (Properties); ANST (Analytical study)
        (drug-metabolizing, genetic variation in; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Mutation
        (duplication, detection of; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dynorphin, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dysferlin, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dyskerins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Nervous system
        (dystonia, genes DYT1 and DYT3 and DYT6 and DYT7 and CSE, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dystrophin-assocd., 35,000-mol.-wt., core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Glycoproteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dystrophin-assocd., 43,000-mol.-wt., core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Glycoproteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dystrophin-assocd., 50,000-mol.-wt., core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
    Initiation factors (protein formation)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
IT
     (Biological study); USES (Uses)
        (eIF-4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ect2, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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ΙT
    Flavoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (electron-transporting flavoproteins, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (emerins, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Proteins, specific or class
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (empty spiracles homolog 1 and 2, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (endobrevins, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Heart
        (endocardium, fibroelastosis 2, gene EFE2, core group of
       disease-related genes; gene probes used for genetic profiling
       in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (endometrial bleeding-assocd. factor, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ephrin A and B, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Transcription factors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (erythroid kruppel-like factor, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (exotosin 1 and 2 and 3, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
IT
    Intestine, neoplasm
        (familial polyposis, clin. management of; gene probes used for genetic
     profiling in healthcare screening and planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (fertilin, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (folate, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(folate-transporting, core group of disease-related genes; gene probes

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used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (follicular lymphoma variant translocation gene FVT1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (frataxins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ganglioside GM2-activator, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gap junction-specific, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Gastrointestinal hormone receptors
     Peptide receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gastric inhibitory polypeptide, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gastrulation brain homoeobox 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene BCL1 and BCL4 through BCL10, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene BCL2-related A1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
ΙT
     Cockayne's syndrome
        (gene CKN1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Deafness
        (gene DFNAS AND DDP, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
TΨ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(gene ERCC2, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC3, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Kallmann syndrome
        (gene KAL1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene RAD51, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene RAD52, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene RAD54, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene RAD55, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene RAD57, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Sjogren's syndrome
IT
        (gene SSA1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene TFE3, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Wiskott-Aldrich syndrome
        (gene WASP, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene WT2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene WT4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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Proteins, specific or class

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene bcl-3, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene c-erbB4, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene mutL, homolog, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene mutS, homolog 1 and 2, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Genome
Genotyping (method)
Health
Nucleic acid hybridization
Prognosis
Test kits
   (gene probes used for genetic profiling in healthcare
   screening and planning)
Gene, animal
RL: ANT (Analyte); BPR (Biological process); THU (Therapeutic use); ANST
(Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
   (gene probes used for genetic profiling in healthcare screening and
   planning)
Antibodies
Probes (nucleic acid)
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); USES (Uses)
   (gene probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene smoothened, core group of disease-related genes; gene probes
used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt2, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt4, core group of disease-related genes; gene probes
used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt5, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt7, core group of disease-related genes; gene probes
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used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene wnt8, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (geniospasm 1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gephyrins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Neurotrophic factor receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glial-derived neurotrophic factor, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Neurotrophic factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glial-derived, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Chloride channel
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glioma CCC, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glucose phosphate-transporting, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
TΤ
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glucose-transporting, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
TΨ
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (qlucose/galactose-transporting, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glutamate-transporting, 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
TΤ
     Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glutamine-transporting, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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Growth factor receptors

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(glycine-transporting, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (qlycophorin B, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (qlycophorin C, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glypican 3, core group of disease-related genes; gene probes used for
genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (green cone pigment, core group of disease-related genes; gene
 probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (growth arrest-specific homeobox, core group of disease-related genes;
 gene probes used for genetic profiling in healthcare screening
   and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (growth factor receptor-bound protein 2, core group of
   disease-related genes; gene probes used for genetic profiling in
   healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (growth-related, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (quanylate cyclase-activating 1A, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare screening
   and planning)
G proteins (quanine nucleotide-binding proteins)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gusducin .alpha., core group of disease-related genes; gene probes
 used for genetic profiling in healthcare screening and
   planning)
Kinesins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (heavy and light chains, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (hepatic 1 and 2, core group of disease-related genes; gene
 probes used for genetic profiling in healthcare screening and
   planning)
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (heregulin, erbB-3, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
IΤ
    Kininogens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (high-mol.-wt., core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
    Gene, animal
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hs1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hs2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (huntingtin, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hydrogen ion-sodium-exchanging, 1-5, core group of disease-
     related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hydrogen ion-transporting, VPP1 and VPP3, core group of disease-
     related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Embryo, animal
        (hypohidrotic ectodermal dysplasia, gene ED1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Brain, disease
        (injury, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IΤ
    Mutation
        (insertion, detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
TT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (insulin promoter factor 1, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (int-2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    CD antigens
    Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (integrin .alpha.7, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening
        and planning)
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CD antigens

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Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (integrin .beta.5, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening
       and planning)
ΙT
    CD antigens
    Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (integrin .beta.7, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening
       and planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interferon regulatory factor 4, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Interleukin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 10 receptors, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
       and planning)
IT
    Interleukin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 11 receptors, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
IT
    Interleukin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 13 receptors, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
IT
    Interleukin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 9 receptors, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
IT
    Lipoprotein receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (intermediate-d. lipoprotein receptors, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
ΙT
    Phosphoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (kinectins, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lamins, A/C, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (latent transforming growth factor-.beta.-binding 2, core group
      of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
IT
     Proteins, specific or class
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (leukocyte-specific transcript 1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Leukotriene receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (leukotriene B4, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
ΙT
    Leukotriene receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (leukotriene D4, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Immunoglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (light chains, .kappa. const. and variable regions, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Muscular dystrophy
        (limb-girdle, Genes LHX1 and LHX2 and LHX3 and LHX4, core group
        of disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (limbic-assocd. membrane, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
ΙT
    Annexins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lipocortins, 1, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
ΙT
     Potassium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (long QT-type 2, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (loricrins, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
IT
    Lipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (low-d., 1, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
    Lipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (low-d., 2, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lpsa, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (lunatic fringe secreted, core group of disease-related genes
        ; gene probes used for genetic profiling in healthcare screening and
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lymphoblastic leukemia-derived sequence 1, core group of disease-
      related genes; gene probes used for genetic profiling in
       healthcare screening and planning)
ΙT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lymphoid enhancer-binding factor, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Lymphokine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lymphotoxin, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
    Cytokine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (macrophage inflammatory protein 1.alpha. receptors, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TΤ
    Cytokines
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (macrophage inflammatory protein, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Cytokine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (macrophage inflammatory protein-2, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Cytokines
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (macrophage-activating factor, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Eye, disease
        (macular dystrophy, gene VMD1, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (malignant proliferation MPE, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (manic fringe secreted, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
IT
    Agglutinins and Lectins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mannose-binding, 1 and 2, core group of disease-related genes
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; gene probes used for genetic profiling in healthcare screening and

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planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mannose-binding, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
       planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (marenostrins, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
       planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mdm-2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Pituitary hormone receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (melanocortin 1, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Pituitary hormone receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (melanocortin 4, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Pituitary hormone receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (melanocortin, melanocortin 2 receptors, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (menin, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mesoderm-specific transcript, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (met, core group of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
TΤ
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (microphthalamia-assocd., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (microtubule-assocd., core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (midline 1, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
       planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mismatch repair gene PMS1 and PMS2, core group of disease
        -related genes; gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Mutation
        (missense, detection of; gene probes used for genetic profiling in
       healthcare screening and planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (monoamine-transporting, 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (monocarboxylic acid-transporting, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Lipids, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mucolipids, metabolic disorders, mucolipidosis, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mycilins, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and planning)
    Myeloproliferative disorders
IT
        (myelodysplasia, gene MDS1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Lymphokines
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myeloid leukemia factor-1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myomesins, 1 and 2, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare screening and
       planning)
IT
    Vision
        (myopia, genes MYP1 and MYP2, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
       and planning)
ΙŤ
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myosin-binding C, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myotubularins, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
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planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (natural resistance-assocd. macrophage protein 1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
IΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (needins, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Kidney, disease
        (nephronophthisis 1 and 2, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neural retina-specific, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neurexins, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
ΙT
     Growth factors, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neurite extension factors, 2, core group of disease-related
      genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Growth inhibitors, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neurite growth inhibitors, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
     Protein receptors
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neuronal mol.-1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neurotransmitter-transporting, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neutral amino-acid-transporting, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neutrophil cystolic factor 1 and 2, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
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Receptors

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (niacin, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (nibrins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (nodal, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (noggin, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
TΤ
     Calcium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (non-voltage gated 1 .alpha. and .beta. and .gamma. and type IV
      .alpha. and .beta., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
     Mutation
TΤ
        (nonsense, detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (norepinephrine-transporting, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (nuclear mitotic app. protein 1, core group of disease-related
      genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Albinism
        (ocular, type 1, gene OA1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Albinism
IT
        (oculocutaneous, gene OCA2, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (oligophrenin-1, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
IT
     Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (oncostatin M, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Protein receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (orexin 1 and 2, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (org. anion-transporting, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
       planning)
     Proteins, specific or class
TΨ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (otoferlins, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
ΙT
     Cyclin dependent kinase inhibitors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (p16INK4, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Cyclin dependent kinase inhibitors
ΤT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (p21CIP1/WAF1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
    Cyclin dependent kinase inhibitors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (p27KIP1, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (p54, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
TΨ
    Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (paired box homeodomain 2 and 3, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pancretic lipase-related 1 and 2, core group of disease
        -related genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
        (paraplegia, gene SPG7, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (parkins, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peanut-like 1, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
       planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pendrins, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peptide-transporting, core group of disease-related genes; gene probes
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used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (peripherins (eye rod outer segment), core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Phosphoproteins IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (peripherins (neuronal intermediate filament), core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class ΙT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (peroxisomal membrane protein 3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Receptors IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (peroxisome 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Peroxisome proliferators TT (peroxisome biogenesis factors 1 and 6 and 7, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (phosphatase and tensin homolog, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (phosphatidylinositol transfer protein, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Glycophospholipids RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (phosphatidylinositol-contg., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (pim-1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (plakophilin 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Glycoproteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (platelet glycoprotein 1b.alpha. and 1b.beta. and 1b.delta. and IX and V, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (plectins, 1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
TΨ
     Growth factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pleiotrophin, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Kidney, disease
        (polycystic, gene PKHD1, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (polycystins, 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare screening and
       planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (postsynaptic d.-95, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pre-B-cell leukemia 1, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
     Disease, animal
TΨ
        (prognosis and management of; gene probes used for genetic profiling
      in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (prohibitins, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (proline-rich, BstNI subfamily 1 and 3 and 4, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Leukemia
        (promyelocytic, gene PML, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (prosaposins, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pti-lsea, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pvt-1, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(r-myc, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (rabphilins, 3A, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (rabphilins, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (radical fringe secreted, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
     Mutation
        (rearrangement, detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
ΙT
     Heregulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (receptors, ErbB-3, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
     Interleukin 10
ΙT
     Interleukin 11
     Interleukin 12
     Interleukin 13
     Interleukin 9
     Pleiotrophins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (receptors, core group of disease-related genes; gene probes
     used for genetic profiling in
        healthcare screening and planning)
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (red cone pigment, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ret, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
IT
     Eye, disease
        (retinitis pigmentosa, genes RP1 and RP2 and RP3 and RP6, core
      group of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (retinol-binding, 1 and 2 and 4, core group of disease-related
      genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Eye, disease
TΤ
        (retinoschisis gene RS, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Brain, neoplasm
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(rhabdoid, gene SMARCB1, core group of disease-related genes; gene

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probes used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (rod outer membrane segment membrane protein 1, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (semaphorin A4 and A5 adn D and E and F and W, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
ΙT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (serotonin-transporting, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
    Immunodeficiency
        (severe combined, gene SCIDA, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (short stature homeobox, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
    Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sine oculis homoeobox homolog 1 and 2 and 5, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Ribonucleoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (small nuclear RNA-contg., N, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
        screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (smoothelins, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (solute carrier family, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
    Hedgehog protein
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sonic, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sorcins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(sperm adhesion mol., core group of disease-related genes; gene
 probes used for genetic profiling in healthcare screening and
   planning)
Nervous system
   (spinocerebellar ataxia, gene SCA8, core group of disease-related
 genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Mutation
   (splice site, detection of; gene probes used for genetic profiling in
   healthcare screening and planning)
Enzymes, biological studies
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (stratum corneum chymotryptic, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (surfeit 1, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (survival of motor neuron 1, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare screening
   and planning)
Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (synapsins II, 2a and 2b, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (synapsins, I, la and lb, core group of disease-related genes; gene
 probes used for genetic profiling in healthcare screening and
   planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (synaptic vesicle amine-transporting, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (synaptic vesicle protein 2, core group of disease-related
 genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (synaptogyrins, core group of disease-related genes; gene probes
 used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (synaptosomal-assocd., 25,000-mol.-wt., core group of disease-
 related genes; gene probes used for genetic profiling in
   healthcare screening and planning)
Syndecans
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(syndecan-2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Syndecans
ΙŦ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (syndecan-4, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
     Syndecans
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (syndecans-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tc21, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Transcription factors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (termination 1 and 2 and 3, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (testis-specific protein Y, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
     Proteins, specific or class
TΨ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (thyroid receptor auxiliary, core group of disease-related genes;
      1gene probes used for genetic profiling in healthcare screening
        and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (thyrotroph embryonic factor, core group of disease-related
      genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Globulins, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (thyroxine-binding, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     G proteins (guanine nucleotide-binding proteins)
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (transducing GNAT1 and GNAT2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
     Proteins, specific or class
TΨ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (translationally-controlled tumor protein 1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (treacle, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (tremor, essential, 2, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
    Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (triglyceride-transferring, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
    Peptides, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (trypsinogen-activating, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tubby-like protein 1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare screening and
       planning)
IT
    Brain, disease
        (tuberous sclerosis, gene TSC1 and TSC2, core group of disease-
     related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 1, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
ΙT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 2, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 3, core group of
     disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 4, core group
        of disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 5, core group
        of disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 6, core group
        of disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor suppressor, DRA, core group of disease-related genes; gene
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probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor-assocd. p63, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor-assocd. p73, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
TT
    Complement receptors
    Fibroblast growth factor receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 1, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
       planning)
IT
    Complement receptors
    Fibroblast growth factor receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 2, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
    Fibroblast growth factor receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 3, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type I, .alpha.1 and .alpha.2, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare screening
       and planning)
ΙT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type II, .alpha.1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
ΙT
    Activin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type IIB, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
ΙT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type III, .alpha.1, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
    Collagens, biological studies
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type IV, .alpha.1 through .alpha.6, core group of disease
        -related genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Collagens, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type IX, .alpha.2 and .alpha.3, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Collagens, biological studies
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (type V, .alpha.1 and .alpha.2, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare screening
       and planning)
ΙT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type VI, .alpha.1 and .alpha.2 and .alpha.3, core group of
       disease-related genes; gene probes used for genetic profiling in
       healthcare screening and planning)
IT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type VII, .alpha.1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
IT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type X, .alpha.1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
    Collagens, biological studies
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type XVII, .alpha.1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ubiquitin fusion degeneration 1-like, core group of disease-
     related genes; gene probes used for genetic profiling in
       healthcare screening and planning)
    Enzymes, biological studies
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ubiquitin-activating, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
    Glycoproteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (undulins, 1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
     Peptides, biological studies
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (vasoinhibitory, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (vavtrk, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
     Lipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (very-low-d., core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Calcium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (voltage-dependent, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
TT
     Potassium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(voltage-gated E1 and Q1 and Q2 and Q3 and Q4, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
ፐጥ
     Calcium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (voltage-gated type 1.beta., core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
ΙT
     Nervous system
        (von Hippel-Lindau disease, gene VHL, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (winged helix nude, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
IT
     Skin, disease
        (xeroderma pigmentosum I, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (yes, core group of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (yuasa, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Adhesins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (zonadhesins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Opioid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.kappa.-opioid, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     GABA receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta. and .gamma. subunits, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Fibrinogens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta. and .gamma., core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
ΙT
     Glycine receptors
     Granulocyte-macrophage colony-stimulating factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta., core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Catenins
     Interferons
     Interleukin 8 receptors
     Peroxisome proliferator-activated receptors
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Thyroid hormone receptors

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Vitronectin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha., core group of disease-related genes; gene probes
        used for genetic profiling in healthcare
        screening and planning)
IT
    Actinins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-, 2 and 3, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
TT
    Actins
     Spectrins
     Transforming growth factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening
        and planning)
IT
     Thalassemia
        (.alpha.-, gene ATRX, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     Interleukin 2 receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-chain, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-tectorin, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-tocopherol-binding, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
IT
    Haptoglobin
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.1 and .alpha.2, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
ΙT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Crystallins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.A-, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
     Crystallins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(.alpha.B-, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
ΙT
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.1, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and
       planning)
ΙT
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.2, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
       planning)
ΙT
    Macroglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.2-, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
ΙT
     Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.2-macroglobulin, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
     Integrins
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.3, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and planning)
ΙT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.4, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.5, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
       planning)
ΙT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.6, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
     Interferons
     Interleukin 8 receptors
     Thyroid hormone receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta., core group of disease-related genes; gene probes used
      for genetic profiling in healthcare
        screening and planning)
ΙT
    Actins
    Catenins
    Spectrins
     Transforming growth factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.-, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening
        and planning)
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Interleukin 2 receptors

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.-chain, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.-galactosidase-protective, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Transforming growth factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.-induced, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
     Transforming growth factor receptors
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.-transforming growth factor type II, core group of
     disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.1, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and
        planning)
TΤ
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Microglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.2-, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.3, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
TТ
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.4, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Catenins
     Interferons
     Peroxisome proliferator-activated receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma., core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening
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and planning)

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ΙT
     Crystallins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-actins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Interleukin 2 receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-chain, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
ΙT
     Interferon receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-interferon, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
ΙT
     Opioid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.delta.-opioid, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
     Opioid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.mu.-opioid, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
ΙT
     9032-64-8, Nucleotide pyrophosphatase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2 and 3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     80146-85-6, Transglutaminase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2 and 4, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
                              9004-06-2, Elastase
                                                    39391-18-9
TΨ
     9002-08-8, Trypsinogen
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
                               9023-88-5, Phosphomannose isomerase
                                                                      9031-68-9,
TΤ
     9002-72-6, Somatotropin
                             37205-61-1, Protease inhibitor
                                                              152166-53-5,
     Galactosyltransferase
     Neurotrophic factor receptor kinase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     9038-14-6
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1-4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
     76901-00-3, Platelet-activating factor acetylhydrolase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1B and 2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     56626-18-7, Fucosyltransferase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(2 and 3 and 6, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     39391-18-9, Prostaglandin endoperoxide synthase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     9035-37-4, Cytochrome b
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (245.alpha. and 245.beta., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     9001-01-8, Kallikrein
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
                                        9001-66-5, Monoamine oxidase
IT
     9001-60-9, Lactate dehydrogenase
     9027-52-5, Hexosaminidase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A and B, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     9031-96-3, Peptidase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A and C and E and S, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     9033-07-2, Glycosyltransferase
IΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ABO blood group, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     9002-69-1, Relaxin
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H1 and H2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     86480-67-3, Ubiquitin C-terminal hydrolase
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     213903-53-8, Cryptochrome 1
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (and cryptochrome 2, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
                                             70-18-8, Glutathione, biological
IT
     50-56-6, Oxytocin, biological studies
               113-79-1 1393-25-5, Secretin
                                                9000-81-1, Acetylcholinesterase
     studies
     9000-83-3, Complex V (mitochondrial electron transport)
                                                                9000-86-6,
     Alanine aminotransferase 9000-90-2, .alpha.-Amylase
                                                              9000-92-4, Amylase
     9000-94-6, Antithrombin III
                                                         9000-97-9
                                   9000-96-8, Arginase
                                                                      9001-03-0,
                          9001-05-2, Catalase
                                                9001-06-3, Chitotriosidase
     Carbonic anhydrase
     9001-08-5, Butyrylcholinesterase
                                        9001-10-9, Pepsinogen
                                                                 9001-12-1,
                                 9001-15-4, Creatine kinase
     Matrix metalloproteinase 1
                                                                9001-16-5,
                                                     9001-18-7, Dihydrolipoyl
     Complex IV (mitochondrial electron transport)
                     9001-24-5, Blood-coagulation factor V
                                                             9001-25-6,
     dehydrogenase
     Blood-coagulation factor VII
                                    9001-27-8, Blood-coagulation factor VIII
     9001-28-9, Blood-coagulation factor IX
                                              9001-29-0, Blood-coagulation
                9001-30-3, Blood-coagulation factor XII
                                                          9001-36-9
     factor X
                                        9001-40-5, Glucose 6 phosphate
     9001-39-2, Glucose 6 phosphatase
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9001-41-6, Phosphoglucose isomerase

dehydrogenase

9001-42-7,

.alpha.-Glucosidase 9001-45-0, .beta.-Glucuronidase 9001-47-2, 9001-50-7, Glyceraldehyde 9001-48-3, Glutathione reductase 3 phosphate dehydrogenase 9001-51-8, Hexokinase 9001-52-9, Fructose 9001-58-5, Isocitrate diphosphatase 9001-54-1, Hyaluronidase dehydrogenase 9001-59-6, Pyruvate kinase 9001-63-2, Lysozyme 9001-64-3, Malate dehydrogenase 9001-67-6, Neuraminidase 9001-69-8, Ornithine transcarbamoylase 9001-75-6, Pepsin 9001-80-3, Phosphofructokinase 9001-81-4, Phosphoglucomutase 9001-83-6, Phosphoglycerate kinase 9001-84-7, Phospholipase A2 9001-86-9, 9001-88-1, Phosphorylase kinase 9001-91-6, Plasminogen Phospholipase C 9001-97-2, Glycogen branching enzyme 9002-02-2, Succinate dehydrogenase 9002-03-3, Dihydrofolate reductase 9002-10-2, Tyrosinase 9002-12-4, Urate oxidase 9002-61-3, Chorionic gonadotrophin 9002-62-4, Prolactin, biological studies 9002-64-6, Parathyroid hormone 9002-68-0, FSH 9002-71-5, TSH 9002-76-0, Gastrin 9003-99-0, Eosinophil peroxidase 9004-02-8, Lipoprotein lipase 9004-10-8, Insulin, biological studies 9007-43-6, Cytochrome c, biological studies 9011-97-6, Cholecystokinin 9012-25-3, Catechol-O-methyltransferase 9012-31-1, Acetyl-CoA synthase 9012-39-9, ATP sulfurylase 9012-42-4, Adenylate cyclase 9012-47-9, Amylo-1,6-qlucosidase 9012-49-1, Aspartate transcarbamoylase 9012-52-6, Methionine adenosyltransferase 9012-56-0, Amidase 9012-78-6, Choline acetyltransferase 9012-90-2, DNA polymerase 9012-93-5, Ferrochelatase 9012-96-8, Cystathionase 9013-02-9, 9013-08-5, Phosphoenolpyruvate carboxykinase Adenylate kinase 9013-18-7, Long chain acyl coa synthetase 9013-38-1, Dopamine 9013-55-2, Blood-coagulation factor XI 9013-56-3, .beta.-hydroxylase Blood-coagulation factor XIII 9013-66-5, Glutathione peroxidase 9013-75-6, Histidase 9014-08-8, Enolase 9014-19-1, Pyruvate 9014-24-8, RNA polymerase 9014-36-2, Succinate thiokinase carboxylase 9014-48-6, Transketolase 9014-42-0, Thrombopoietin 9014-51-1, Tryptophan 2,3-dioxygenase 9014-55-5, Tyrosine aminotransferase 9014-74-8, Enterokinase 9015-67-2, 9014-56-6, Glycogen synthase Alanine-glyoxylate aminotransferase 9015-71-8, ACTH-releasing hormone 9015-82-1, Angiotensin converting enzyme 9015-83-2, 9015-81-0 Phosphoribosyl pyrophosphate synthetase 9015-85-4, DNA ligase 9016-11-9, Galactose 1-phosphate 9015-94-5, Renin, biological studies 9016-17-5, Arylsulfatase 9016-18-6, 9016-12-0 uridylyltransferase 9023-26-1, COA transferase 9023-56-7, CTP synthetase Carboxylesterase 9023-58-9, Arginosuccinate synthetase 9023-62-5, Glutathione synthetase 9023-69-2, Asparagine synthetase 9023-64-7, Glutamate-cysteine ligase 9023-78-3, Triose phosphate isomerase 9023-70-5, Glutamine synthase 9023-90-9, Methylmalonyl-CoA mutase 9023-91-0, Phosphoglycerate mutase 9023-93-2, Acetyl-CoA carboxylase 9023-94-3, Propionyl-CoA carboxylase 9023-99-8, Cystathionine .beta.-synthase 9024-25-3, Aconitase 9024-58-2, Glutamate decarboxylase 9024-70-8, 9024-52-6 9024-93-5, Uroporphyrinogen decarboxylase 9024-78-6, Kynureninase Dihydroorotase 9024-99-1, Malonyl-CoA decarboxylase 9025-06-3, Cytidine deaminase 9025-10-9, AMP deaminase 9025-15-4, Biotinidase 9025-26-7, Cathepsin D 9025-32-5 9025-35-8, .alpha.-Galactosidase 9025-43-8, .beta.-9025-42-7, .alpha.-Mannosidase 9025-52-9, Trehalase 9025-54-1, Mannosidase 9025-62-1, Steroid sulfatase 9025-90-5, Adenosylhomocysteinase Hydroxyacyl glutathione hydrolase 9026-22-6, UDP-glucose pyrophosphorylase 9026-23-7, Carbamoylphosphate synthetase 9026-51-1, Nucleoside diphosphate kinase 9026-59-9, Guanylate kinase 9026-89-5, Dihydropyrimidine dehydrogenase 9026-93-1, Adenosine deaminase 9027-03-6, Complex III (mitochondrial electron transport) 9027-13-8, 9027-21-8, Carnosinase 9027-27-4, Enoyl-CoA hydratase 9027-43-4, 3-Oxoacid CoA 9027-34-3 .beta.-Ureidopropionase 9027**-**33-2 9027-44-5, HMG-CoA synthase 9027-46-7, Thiolase II transferase 9027-67-2, Terminal deoxynucleotidyltransferase 9027-80-9, Adenine phosphoribosyltransferase 9027-81-0, Adenylosuccinate lyase 9027-88-7, 9027-89-8, Galactocerebrosidase Short-chain acyl CoA dehydrogenase 9027-96-7, Citrate synthase 9028-04-0 9028-06-2 9028-11-9, Complex II (mitochondrial electron transport) 9028-16-4, Xylitol dehydrogenase 9028-21-1, Sorbitol dehydrogenase 9028-31-3, Aldose reductase

9028-38-0, D-.beta.-Hydroxybutyrate dehydrogenase

9028-35-7

ΙT

9028-41-5

12651-28-4,

37184-63-7,

9028-93-7, IMP dehydrogenase 9028-86-8, Aldehyde dehydrogenase 9028-95-9, Succinic semialdehyde dehydrogenase 9029-12-3 9029-38-3, 9029-49-6, Homogentisate 1,2-dioxygenase 9029-60-1, SUlfite oxidase 9029-61-2, Kynurenine hydroxylase 9029-72-5, Lipoxygenase 9029-73-6, Phenylalanine hydroxylase 4-Hydroxyphenylpyruvate dioxygenase 9029-83-8, Serine 9029-75-8, Guanidinoacetate methyltransferase 9029-84-9, Glycine Formiminotransferase hydroxymethyltransferase 9029-87-2, Malonyl-CoA carboxyltransferase 9029-97-4, Acetyl CoA 9030-08-4, UDP-Glucuronosyltransferase 9030-21-1, acyltransferase Purine nucleoside phosphorylase 9030-42-6 9030-50-6, Ketohexokinase 9030-53-9, Galactokinase 9030-66-4, Glycerol kinase 9030-74-4, 9030-83-5, HMG-CoA lyase 9030-87-9, Dihydropyrimidinase 15-Hydroxyprostaglandin dehydrogenase 9031-02-1, .alpha.-Ketoglutarate 9031-11-2, .beta.-Galactosidase 9031-14-5, dehydrogenase 9031-28-1, Thyroid peroxidase Lecithin-cholesterol acyltransferase 9031-37-2, Ceruloplasmin 9031-36-1, Steroid .DELTA.-isomerase 9031-61-2, Thymidylate synthase 9031-54-3, Sphingomyelinase 9031-72-5, Alcohol dehydrogenase 9031-82-7, Glutamine phosphoribosylpyrophosphate 9031-86-1, Aspartoacylase 9031-98-5, Carboxypeptidase amidotransferase 9032-22-8, NADPH oxidase 9032-28-4, Dihydrolipoyl 9032-02-4 9032-29-5 9032-59-1, Fumarylacetoacetase succinyltransferase 9032-76-2, Dehydroepiandrosterone sulfotransferase 9032-88-6, Fumarase 9034-39-3, Growth hormone releasing 9032-89-7, UDP-galactose-4-epimerase 9034-40-6, LH-releasing hormone 9035-34-1, Cytochrome a hormone 9035-39-6, Cytochrome b5 9035-51-2, Cytochrome P 450, biological studies 9035-54-5, Placental lactogen 9035-58-9, Blood-coagulation factor III 9035-75-0, Chymotrypsinogen 9035-74-9, Glycogen phosphorylase 9035-81-8, Trypsin inhibitor 9036-20-8 9036-22-0, Tyrosine hydroxylase 9036-37-7, .delta.-Aminolevulinate dehydrase 9036-23-1, UMP kinase 9036-43-5, Steroid .DELTA.4-5.alpha.-reductase 9037-14-3, .delta.-Aminolevulinate synthase 9037-21-2, Tryptophan hydroxylase 9037-65-4, .alpha.-L-Fucosidase 9037-42-7, DNA methyltransferase 9037-67-6, GABA transaminase RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) 9037-68-7, Phenylethanolamine methyltransferase 9039-06-9, Cytochrome P 9039-45-6, Deoxycytidine kinase 9040-57-7, 450 reductase 9041-46-7, 11.beta.-Hydroxysteroid Ribonucleotide reductase 9041-92-3, .alpha.1-Antitrypsin 9042-64-2, DOPA dehydrogenase 9044-85-3, 9044-50-2, Steroid 17-20 desmolase decarboxylase 9044-86-4, Dehydratase 9046-27-9. 3.beta.-Hydroxysteroid dehydrogenase 9047-22-7, Cathepsin B .gamma.-Glutamyltransferase 9047-64-7, Ribonucleoside diphosphate reductase 9048-63-9, Epoxide hydrolase 9050-70-8, Proline dehydrogenase 9054-54-0, Acyltransferase 9054-63-1, 9054-65-3, Branched chain aminotransferase Microsomal aminopeptidase 9054-84-6, Xanthine dehydrogenase 9054-75-5, Guanylate cyclase 9054-89-1, Superoxide dismutase 9055-02-1, Prekallikrein 9055-67-8, 9056-26-2, Peptidase B 9059-22**-**7, Heme Poly(ADP-ribose) synthetase 9059-25-0, Lysyl hydroxylase 9060-09-7, Uteroglobins oxygenase 9061-61-4, Nerve growth factor 9067-97-4, .DELTA.4-3-Oxosteroid 5.beta.-reductase 9068-41-1, Carnitine palmitoyltransferase 9068-44-4, Procollagen peptidase 9068-57-9, Acrosin 9 synthetase 9073-56-7, .alpha.-L-Iduronidase 9068-75-1, Glucagon 9074-10-6, Biliverdin 9074-11-7, Dihydropteridine reductase 9074-91-3, reductase Porphobilinogen deaminase 9075-24-5, Aspartylglucosaminidase 9075-81-4 9075-65-4, Glycerophosphate dehydrogenase 9076-84-0, 9077-03-6, 17-Ketosteroid reductase Coproporphyrinogen oxidase 9079-67-8, NADH dehydrogenase 9080-21-1, 7-Dehydrocholesterol reductase 9081-34-9, Steroid 5.alpha.-reductase 9082-57-9, Inosine triphosphatase 9082-72-8, Branched chain keto acid dehydrogenase 11002-13-4, Angiotensinogen (protein renin substrate) 11016-39-0, Properdin

11096-26-7, Erythropoietin 12651-27-3, Transcobalamin 1

Transcobalamin 2 24305-27-9, Thyrotropin releasing hormone

37211-69-1, 2,3-Bisphosphoglycerate mutase Inositol monophosphatase 37213-56-2, Complement factor D 37221-79-7, Vasoactive intestinal 37233-48-0, 37228-64-1, Acid .beta.-glucosidase polypeptide Carbamoylphosphate synthetase 37255-32-6, Dihydrodiol dehydrogenase 37255-38-2, Glutaryl-CoA dehydrogenase 37255-40-6, Glycine dehydrogenase 37257-08-2, Aminomethyltransferase 37257-17-3, Malonyl-CoA 37256-36-3 37257-19-5, Dihydroxyacetone phosphate acyltransferase transacylase 37270-64-7, Acyl-CoA thioesterase 37274-61-6, Isovaleryl-CoA dehydrogenase 37277-84-2, Cobalamin adenosyltransferase 37288-39-4 37288-40-7, .alpha.-Acetylglucosaminidase 37288-66-7, Aminopeptidase P 37289-19-3, GTP cyclohydrolase 37289-34-2 37289-41-1, Heparin 37290-90-7, Methionine synthase 37340-55-9, sulfamidase Uroporphyrinogen III synthase 39346-44-6, Inter-.alpha.-trypsin 39362-14-6, Prolactin-releasing hormone 39379-15-2, inhibitor 39419-81-3, Holocarboxylase synthetase 50812-31-2 Neurotensin 50812-37-8, Glutathione S-transferase 50936-59-9, Iduronate 2-sulfatase 51110-01-1, Somatostatin 52906-92-0, Motilin 53096-17-6, Bleomycin hydrolase 53167-91-2, NADPH-Flavin nucleotide dehydrogenase 53230-14-1, Preprothrombin 53986-32-6, Protoporphyrinogen oxidase 54004-64-7, Rhodopsin kinase 55126-92-6, Colipase 55576-43-7, Dextrinase 56626-15-4, C3 Convertase 56645-49-9, Cathepsin G 58319-92-9, ADP-ribosyltransferase 59299-00-2, Acetylgalactosamine 6 sulfatase 59392-49-3, Gastric inhibitory polypeptide 59536-74-2, Long-chain acyl CoA dehydrogenase 59828-56-7, Endo-.beta.-glucuronidase 59977-51-4, Prostaglandin endoperoxide convertase 60202-16-6, Protein C 60320-99-2, Acetylglucosamine 6 sulfatase 60267-61-0, Ubiquitin 60748-73-4, Cathepsin H 60832-04-4, 60616-82-2, Cathepsin L Thromboxane A2 synthetase 61116-24-3, Preproinsulin 61512-21-8, 62031-54-3, Fibroblast 61811-29-8, Apurinic endonuclease 62229-50-9, Epidermal growth factor 62213**-**29-0 growth factor 64885-96-7, DNA primase 65802-85-9, 63340-72-7, Thymic humoral factor Prostaglandin D synthase 65802-86-0, Prostacyclin synthase 65979-40-0, Bile acid CoA amino acid N-acyltransferase 66796-54-1, 67339-09-7, Thiopurine S-methyltransferase Proopiomelanocortin 67763-96-6, Insulin-like growth factor 1 67763-97-7, Insulin-like growth 70356-40-0, DNA glycosylase 70712-46-8, 68651-94-5 factor II Iodothyronine 5'-deiodinase 71822-25-8, 5,10-Methylenetetrahydrofolate reductase 71965-46-3, Cathepsin S 73508-07-3, Molybdoenzyme molybdenum 74506-38-0, Medium-chain acyl CoA dehydrogenase cofactor 73562-26**-**2 74812-49-0, Ubiquitin protein ligase 74870-74-9, UMP synthetase 75432-63-2, Preproglucagon 75922-89-3, 78689-77-7, 77271-19-3 Pyrroline-5-carboxylate synthetase 79955-99-0, 6-Phosphofructo-2-kinase 78783-52-5 78990-62-2, Calpain 80043-53-4, Gastrin releasing peptide Matrix metalloproteinase 3 80295-33-6, Complement Clq 80295-34-7, Complement Clr 80295-35-8, Complement C1s 80295-38-1 80295-40-5, Complement C2 80295-41-6, 80295-49-4, Complement C4A 80295-50-7, Complement C4B Complement C3 80295-57-4, 80295-53-0, Complement C5 80295-56-3, Complement C6 Complement C7 80295-58-5, Complement C8 80295-59-6, Complement C9 80295-65-4, Complement factor H 80295-66-5, Complement factor I 80497-65-0, Antimullerian Hormone 81181-72-8, .gamma.-Glutamyl 81604-65-1, Heparin cofactor ii 81627-83-0, carboxylase 82707-54-8, Neutral endopeptidase Colony-stimulating factor 1 82785-45-3, Neuropeptide Y 82869-38-3, 2,4-Dienoyl CoA reductase 83869-56-1, Colony-stimulating factor 2 85637-73-6, Atrial natriuretic 85638-40-0, Polylactosamine branching peptide 86551-03-3, Electron transfer flavoprotein acetylglucosaminyltransferase 86933-74-6, Neurokinin A 87683-70-3, dehydrogenase Pterin-4.alpha.-carbinolamine dehydratase 88402-55-5, Prodynorphin 90119-07-6, Leukotriene A4 hydrolase 90597-47-0, Peptidylglycine 90698-32-1, Leukotriene C4 synthase .alpha.-amidating monooxygenase 92769-12-5, Proliferin (protein) 92941-56-5 91448-99-6, Cystatin C 93443-35-7, Preproenkephalin 93792-93928-65-5, Aminoadipic semialdehyde 93792-73-5, Serotonin acetyltransferase Colony-stimulating factor 3 94716-09-3, Cathepsin K 95567-84-3, Dihydrolipoamide synthase transacylase 97089-82-2, 6-Pyruvoyltetrahydropterin synthase

97501-92-3, Chymase 99085-47-9, Complement decay-accelerating factor 99676-46-7, Kexin 102484-74-2, Alkylglycerone 99194-04-4, Cystatin B phosphate synthase 102577-23-1, Neurokinin B 103370-86-1, Parathormone-related peptide 104118-56-1, Leukotriene A4 synthase 106283-10-7, Inositol 1,4,5-triphosphate 3-kinase 105913-04-0 106602-62-4, Islet amyloid polypeptide 106956-32-5, Oncostatin M 109319-16-6 109489-77-2, Tetranectin 110910-42-4, Cathepsin E 111694-13-4, Inositol polyphosphate 1-phosphatase 114101-80-3, Pro-melanin-concentrating hormone 114949-22-3, Activin 115966-66-0, 117147-70-3, Amphiregulin 115966-67-1, Histatin 3 Histatin 1 117628-82-7, Follistatin 117698-12-1, Paraoxonase 119418-04-1, Galanin 120178-12-3, Telomerase 121797-22-6, Histatin 2 122097-00-1, Cyclin-dependent kinase 8 122191-40-6, Caspase 1 122879-69-0, 123626-67-5, Endothelin 1 124861-55-8 125692-40-2, Endothelin 2 125978-95-2, Nitric oxide synthase 127407-08-3, Receptor Endothelin 3 127464-60-2, Vascular endothelial growth factor tyrosine kinase 128028-50-2, Myeloblastin 128449-51-4, .alpha.1,3-Galactosyltransferase 130939-66-1, Neurotrophin 3 137061-48-4, Pituitary adenylate cyclase-activating peptide 138238-81-0, Endothelin converting enzyme 138359-29-2, c-Kit protein tyrosine kinase 138674-26-7, SYK tyrosine 138757-15-0, .alpha.2-Antiplasmin 139466-48-1, Protein C 139639-23-9, Tissue plasminogen activator 139639-24-0, Urokinase plasminogen activator 140158-49-2, Hippocampal cholinergic neurostimulating peptide 140208-22-6, CDC25 phosphatase 140208-23-7, Plasminogen activator inhibitor 1 140208-24-8, Tissue inhibitor of metalloproteinase 1 140610-48-6, Matrix metalloproteinase 10 141176-92-3, .alpha.1-Antichymotrypsin 141256-52-2, Matrix metalloproteinase 7 141349-86-2, Cyclin-dependent kinase 2 141436-78-4, Protein kinase C RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) 141467-21-2, Calmodulin-dependent protein kinase 141588-27-4, Protein 141760-45-4, Furin 142008-29-5, Protein kinase A 142243-02-5, Mitogen-activated protein kinase 142243-03-6, Plasminogen activator inhibitor 2 142805-56-9, Topoisomerase II 142805-58-1, MEK 143180-75**-**0 143375-65-9, CDC2 kinase 144697-17-6, c-Src tyrosine kinase 144940-98-7, Guanylin 145267-01-2, Matrix 145809-21-8, Tissue inhibitor of metalloproteinase metalloproteinase 11 146480-36-6, Matrix 146480-35-5, Matrix metalloproteinase 2 metalloproteinase 9 146702-84-3, Mitogen-activated protein kinase kinase 147014-96-8, Cyclin-dependent kinase 5 147014-97-9, 148047-29-4 148125-60-4, Protease nexin 2 149885-72-3, Heme-regulated inhibitor of Cyclin-dependent kinase 4 149147-12-6 148640-14-6 150605-49-5, Palmitoyl-protein thioesterase 151662-20-3 translation 151821-61-3, Ubiquitin B 151821-62-4, Ubiquitin C 151769-16-3 152478-56-3, Janus kinase 1 152478-57-4, Janus kinase 2 153190-71-7, Cyclin-dependent kinase 3 154531-34-7, Heparin-binding EGF-like growth 154907-66-1, Cyclin-dependent kinase 6 157482-36-5, Janus factor 161052-08-0, Gene tie protein kinase 157857-10-8, Prostasin kinase 3 169494-85-3, Leptin 161384-17-4, Matrix metalloproteinase 14 169592-62-5 170347-52-1, Gene nsk2 protein kinase 169592-56-7, Apopain 170780-57-1, LIM kinase 175449-82-8, Matrix metalloproteinase 13 179241-73-7, Activin-receptor-like kinase 1 179241-78-2, Caspase 8 180189-96-2, Caspase 9 182372-11-8, Metalloproteinase ADAM12 182762-08-9, Caspase 4 182372-14-1, Caspase 2 182372-15-2, Caspase 6 182970-56-5, Matrix metalloproteinase 16 185402-46-4, 182938-13-2 185857-51-6, Neurturin Phytanoyl-CoA hydroxylase 186207-03-4, Tissue 186270-49-5, Angiopoietin 1

188364-80-9, Matrix metalloproteinase 19 189088-85-5, Caspase 10

Growth/differentiation factor 5 194368-66-6, Angiopoietin 2

189258-14-8, Caspase 7

Caspase 7 192230-91-4, Mitogen-activated 192465-11-5, Caspase 5 193099-09-1,

193099-10-4, Metalloproteinase ADAM15

193830-08-9,

ΙT

inhibitor of metalloproteinase 4

193099-11-5, Metalloproteinase ADAM11

protein kinase kinase 4 Metalloproteinase ADAM10

189088-86-6

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194739-73-6, MAPK kinase 6
194554-71-7, Blood-coagulation factors, LACI
                                        203810-08-6, Matrix
202420-40-4, Gene STK11 protein kinase
                                                      207004-87-3,
metalloproteinase 17
                       205944-50-9, Osteoprotegerin
                                208349-50-2, Matrix metalloproteinase 15
Methionine synthase reductase
              216864-07-2, .alpha.-Synuclein
                                               216864-08-3,
214899-28-2
                   227184-71-6, Matrix metalloproteinase MT-MMP
.beta.-Synuclein
                                              245359-74-4, Orexin
227604-60-6, Matrix metalloproteinase MT5-MMP
248259-60-1, Ephrin-A8 receptor kinase
                                         252337-44-3
                                                       252340-56-0
                            252348-35-9
                                          252348-54-2
              252344-02-8
                                                        252348-89-3
252341-94-9
                                          252350-77-9
                                                        252350-84-8
              252350-00-8
                            252350-19-9
252349-85-2
              252351-00-1
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                                          252351-86-3
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252350-91-7
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
9001-62-1, Lipase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (hepatic, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
80449-02-1, Protein tyrosine kinase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lymphocyte-specific, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
9001-77-8, Acid phosphatase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lysosomal 2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
64-85-7, Deoxycorticosterone
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (receptor, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
9025-75-6, Protein phosphatase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (regulatory subunit PPP1R3 and A, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
9001-78-9
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (tissue nonspecific TNSAP, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
79747-53-8, Protein tyrosine phosphatase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (type 12, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
158736-49-3, .alpha.-Secretase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.alpha. and .beta. and .gamma., core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
57285-09-3, Inhibin
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.alpha. and .beta.A and .beta.B and .beta.C subunits, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
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9002-67-9, Luteinizing hormone

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Ankyrins Calmodulins Notch (receptor)

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (.beta.-subunit, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) L153 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2001 ACS 1999:795993 HCAPLUS 132:31743 Gene probes used for genetic profiling in healthcare screening and planning Roberts, Gareth Wyn Genostic Pharma Limited, UK PCT Int. Appl., 149 pp. CODEN: PIXXD2 Patent English ICM C12Q001-68 ICS C07K016-18 3-1 (Biochemical Genetics) Section cross-reference(s): 9, 13, 14 FAN.CNT 2 APPLICATION NO. DATE PATENT NO. KIND DATE \_\_\_\_\_ ----\_\_\_\_\_ \_\_\_\_\_ 19991216 WO 1999-GB1779 19990604 WO 9964626 A2 AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9941586 A1 19991230 AU 1999-41586 19990604 AU 1999-41587 19990604 AU 9941587 A1 19991230 GB 1999-12914 19990604 GB 2339200 Α1 20000119 PRAI GB 1998-12098 19980606 GB 1998-28289 19981223 GB 1998-16086 19980724 GB 1998-16921 19980805 GB 1998-17097 19980807 GB 1998-17200 19980808 19980814 GB 1998-17632 GB 1998-17943 19980819 19990604 WO 1999-GB1779 There is considerable evidence that significant factor underlying the individual variability in response to disease, therapy and prognosis lies in a person's genetic make-up. There have been numerous examples relating that polymorphisms within a given gene can alter the functionality of the protein encoded by that gene thus leading to a variable physiol. response. In order to bring about the integration of genomics into medical practice and enable design and building of a technol. platform which will enable the everyday practice of mol. medicine a way must be invented for the DNA sequence data to be aligned with the identification of genes central to the induction, development, progression and outcome of disease or physiol. states of interest. According to the invention, the no. of genes and their configurations (mutations and polymorphisms) needed to be identified in order to provide crit. clin. information concerning individual prognosis is considerably less than the 100,000 thought to comprise the human genome. The identification of the identity of the core group of genes enables the invention of a design for genetic profiling technologies. probe genetic profiling healthcare screening

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1 and 2 and 3, core group of disease-related genes; gene
   probes used for genetic profiling
 in healthcare screening and planning)
Angiotensin receptors
Fibrillins
Neurofibromin
Presenilins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1 and 2, core group of disease-related genes; gene probes used
 for genetic profiling in healthcare
 screening and planning)
Inositol 1,4,5-trisphosphate receptors
P-glycoproteins
Uncoupling protein
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1 and 3, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening
   and planning)
Chloride channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1 and 5 and KB, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and
   planning)
Calbindins
Keratins
Laminin receptors
Synaptobrevins
Syntaxins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare
screening and planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (10, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (11 and 2 and 3 and 9, core group of disease-related genes;
 gene probes used for genetic profiling in healthcare
   screening and planning)
Interleukin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (12, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (13, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (14, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Myosins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
   (15 and 5A and 6 and 7A and cardiac, core group of disease-related
   genes; gene probes used for genetic profiling in
   healthcare screening and planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (15, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (16, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (17, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (17-1A, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Keratins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (18, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Melatonin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1A and 1B, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Tropomyosins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (1.alpha. and 3, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Calculi, renal
   (2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Bone morphogenetic proteins
Synaptobrevins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Bone morphogenetic proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (2B, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Cyclin dependent kinase inhibitors
   (3, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (3, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Keratins
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(4, core group of disease-related genes; gene probes used for genetic

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(Biological study); USES (Uses)

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profiling in healthcare screening and planning)
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    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Laminins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5, .alpha.3 and .beta.3 and .gamma.2, core group of disease
       -related genes; gene probes used for genetic profiling in
       healthcare screening and planning)
IT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1A, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1B, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
TT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1C, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
TΤ
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1D, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and
       planning)
ΙT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1E, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT1F, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    5-HT receptors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT2A, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT2B, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
    5-HT receptors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT2C, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and
       planning)
IT
    5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT3, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and
        planning)
     5-HT receptors
TΥ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT5, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
     5-HT receptors
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL `
     (Biological study); USES (Uses)
        (5-HT6, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
IT
     5-HT receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (5-HT7, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and
        planning)
ΙT
    Bone morphogenetic proteins
    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (6, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Bone morphogenetic proteins
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (7, core group of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
ΙT
    Bone morphogenetic proteins
    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (8, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
ΙT
    Apolipoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A, A4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Chromogranins
    Cyclins
    Glycophorins
     Immunoglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening
     and planning)
ΙT
    Apolipoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A-I, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TT
    Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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Adenosine receptors

(A-II, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Heat-shock proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (A1 and A2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ABC (ATP-binding cassette-contg.), 7, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ABP (androgen-binding protein), core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ADP/ATP carrier, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (AIM1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Transcription factors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (AP-2 (activator protein 2), core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (APC, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ATOH1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (Apaf-1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Adenosine receptors Adenosine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (Al, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Adenosine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (A2, core group of disease-related genes; gene probes used for genetic

profiling in healthcare screening and planning)

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A2b, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A2a, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Adenosine receptors
Adenosine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (A3, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and
   planning)
Apolipoproteins
Cyclins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (B, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and
planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (B-lym, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (B-raf, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Glycophosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (B23, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (BCR, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (BRCA1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (BRCA1-assocd. RING domain gene 1, core group of disease-related genes;
 gene probes used for genetic profiling in healthcare
   screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (BRCA2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
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(BRCD1, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and
        planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (BRCD2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Bagpipe homeobox, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening
        and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Bcl-x, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
ΙT
     Disease, animal
        (Beckwith-Wiedemann syndrome, gene BWR1A, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Bradykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Bradykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (B2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Troponins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Chemokine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-C CKR-2 (cysteine-cysteine chemokine receptor 2), core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Chemokine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-C CKR-3 (cysteine-cysteine chemokine receptor 3), core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Chemokine receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-C CKR-5 (cysteine-cysteine chemokine receptor 5), core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
     Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (C-I, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
IT
     Apolipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

(C-II, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Apolipoproteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (C-III, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (C-reactive, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Complement receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (C5a, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Transcription factors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CBF (core-binding factor), .alpha.1 and .alpha.2 and .beta., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Antigens IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD100, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) TT Antigens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD101, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) TΤ Antigens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD103, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Antigens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD107, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Antigens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD108, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Antiqens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD109, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Antigens RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (CD110, core group of disease-related genes; gene probes used for

genetic profiling in healthcare screening and

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planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD111, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD112, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD113, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD114, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD115, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD116, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD117, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD118, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
TΤ
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD119, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD12, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD120, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
     planning)
ΙT
    Antigens
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ΙT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD121, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD123, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and
   planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD124, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD125, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD126, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD127, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Antiqens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD128, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD129, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD130, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and
   planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD131, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD132, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Antigens
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (CD133, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and

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planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD134, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD135, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD136, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD137, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD138, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD139, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD140, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IΤ
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD141, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD142, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΤ
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD143, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD144, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (CD145, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD147, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD148, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
    Antigens
IΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD149, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD150, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD151, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD153, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
    Antigens
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD155, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD156, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD157, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD158, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(CD159, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and
        planning)
TΤ
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD160, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD161, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD162, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD163, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD164, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
    Antigens
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD165, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD166, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD17, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΤ
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD24, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD27, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD33, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(CD37, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD39, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
    Glycoproteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD40-L (antigen CD40 ligand), core group of disease-related
       genes; gene probes used for genetic profiling in
       healthcare screening and planning)
TT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD41, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Antigens
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD42, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
    Antigens
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD47, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD48, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD52, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and
       planning)
ΙT
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
    (Biological study); USES (Uses)
        (CD53, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
ΙT
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD57, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    CD antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD6, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD60, core group of disease-related genes; gene probes used
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for genetic profiling in healthcare screening and planning)

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CD antigens
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD63, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD65, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD66, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD67, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD70, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD72, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IΤ
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD73, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD76, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
ΙT
    Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD77, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD78, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD79, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(CD83, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD84, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD85, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD89, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD9, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD90, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD91, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
     Antigens
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD92, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD93, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     CD antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD94, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΤT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD96, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD97, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
     Antigens
IT
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (CD98, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CD99, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CDX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CREB (cAMP-responsive element-binding), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CREB-binding, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
     planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CRX, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IΤ
    Colony stimulating factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CSF-3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
     planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP11A1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP11B1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP11B2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP17, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP19, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
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planning)

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Gene, animal
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP1A1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP1A2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP1B1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP21, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
    Gene, animal
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP24, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP27, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP27B1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A13, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
TΤ
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2A6V2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(CYP2A7, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2B6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C18, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C19, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2C9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2D6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2E1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2F1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP2J2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A5, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP3A7, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4A11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4B1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4F2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP4F3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP51, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP5A1, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP7A, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
       planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (CYP8, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and
     planning)
ΙT
     Phagocyte
        (Chediak-Higashi syndrome, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare
       screening and planning)
IT
    Apolipoproteins
    Cyclins
     Immunoglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (D, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Steroid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DAX-1, core group of disease-related genes; gene probes used
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for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DCC, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DLX1 through DLX6, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DMBT1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DMC1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DMPK, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DNA damage-binding DDB1 and DDB2, core group of disease
        -related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Enzymes, biological studies
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DNA helicases, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening
        and planning)
     Proteins, specific or class
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DNA-binding, zinc finger-contg., 198 and 2 and 3 and HRX,
        core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Prostanoid receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DP, core group of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (DSS1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Hedgehog protein
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Desert, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Dopamine receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

(D1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Dopamine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (D2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Dopamine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (D3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Dopamine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (D4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Dopamine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (D5, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Calbindins ΙT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (D9k, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Apolipoproteins Cadherins Immunoglobulins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (E, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Selectins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (E-, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (EFMR, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IΤ Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ELF-1 (Eph ligand family-1), core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ELK1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ELK2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Cadherins IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (EP, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

IT

Gene, animal

ΙT

ΙT

IT

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ΙT

ΙT

IT

IT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EPM2A, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP1, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and
   planning)
Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Prostanoid receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EP3, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ERBAL2, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ERCC5, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ERG, core group of disease-related genes; gene probes used for
genetic profiling in healthcare screening and planning)
Endothelin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ETA, core group of disease-related genes; gene probes used for genetic
   profiling in healthcare screening and planning)
Endothelin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (ETB, core group of disease-related genes; gene probes used for genetic
   profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EVI1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EWS, core group of disease-related genes; gene probes used for genetic
   profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (EYA1 and EYA2 and EYA3, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare
 screening and planning)
Gene, animal
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (EYCL3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Cyclins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (F, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FABP (fatty acid-binding protein), core group of disease-related
      genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FDGDY, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FKHL10 and FKHL14 and FKHL7, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FKHR, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Prostanoid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FP, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (FRAXA and FRAXE and FRAXF, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare
        screening and planning)
IΤ
     Anemia (disease)
        (Fanconi's, complementation group A and B, core group of
        disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Anemia (disease)
        (Fanconi's, complementation group C, core group of disease-related
        genes; gene probes used for genetic profiling in
        healthcare screening and planning)
ፐጥ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Flightless II, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare
        screening and planning)
IT
     Muscular dystrophy
        (Fukuyama, gene FCMD, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (G/T mismatch, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
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Immunoglobulins

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (G2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GABA transporter, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening
   and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GADD45, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GDI (GDP dissocn. inhibitor), core group of disease-related genes;
   gene probes used for genetic profiling in
   healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GLI1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and
  planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GLI2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GLI3, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
G proteins (quanine nucleotide-binding proteins)
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GNAO1 and GNB3 and GNG5 and GNAQ, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Galanin, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GluR1 subunit, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GluR2 subunit, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Glutamate receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (GluR3 subunit, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Glutamate receptors
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (GluR4 subunit, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR5 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR6 subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Glutamate receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (GluR7 subunit, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Goosecoid GSC, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    G proteins (guanine nucleotide-binding proteins)
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gil (adenylate cyclase-inhibiting, 1), core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
    G proteins (guanine nucleotide-binding proteins)
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gi2 (adenylate cyclase-inhibiting, 2), core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
    G proteins (quanine nucleotide-binding proteins)
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gi3 (adenylate cyclase-inhibiting, 3), core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
    G proteins (guanine nucleotide-binding proteins)
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Gs (adenylate cyclase-stimulating), GNAS1 and GNAS2 and GNAS3 and
       GNAS4, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Apolipoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Histones
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Histones
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Histones
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(H3, core group of disease-related genes; gene probes used for genetic

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profiling in healthcare screening and planning)
IT
     Histones
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HAND1 and HAND2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Lipoprotein receptors
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HDL, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HIF-1 (hypoxia-inducible factor 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Transcription factors
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HIF-2 (hypoxia-inducible factor 2), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
TΨ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-B assocd. transcript 1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
    Histocompatibility antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-DP, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Histocompatibility antigens
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-DQ, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Histocompatibility antigens
TΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLA-DR, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Gene, animal
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HLXB9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     High-mobility group proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HMG-C and HMG-Y, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     High-mobility group proteins
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (HMG1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    High-mobility group proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HMG2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HNF-3B (hepatocyte nuclear factor 3B), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Transcription factors
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HNF-4 (hepatocyte nuclear factor 4), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
TT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOX11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA10, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXAll, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA12, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA13, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA8, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXA9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXB2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXB3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXB6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXB7, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXB9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXC13, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXC4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXC9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXD1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXD10, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXD13, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXD3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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Gene, animal

TΤ

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXD8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HOXD9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Blood-coagulation factors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HRG (histidine-rich glycoprotein), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Heat-shock proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HSP 60, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Heat-shock proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HSP 70, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΤT
     Heat-shock proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HSP 90, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     DNA formation factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HSSB, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HTS1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HVBS1 and HVBS6, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Hairless, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΨ
     Blood coagulation
        (Hermansky-Pudlak syndrome, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxA1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(HoxA4, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxA5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxA7, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB4, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB5, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxB8, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxC8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxD12, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (HoxD4, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Histamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Histamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Histamine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
       .(H3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Annexins
     Synaptotagmin
     Troponins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(I, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Prostanoid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (I2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICAM-1 (intercellular adhesion mol. 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Cell adhesion molecules
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICAM-2 (intercellular adhesion mol. 2), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Cell adhesion molecules
IT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICAM-3 (intercellular adhesion mol. 3), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ICCA, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Gene, animal
IΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IGER and IGES, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Synaptotagmin
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (II, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IKBL, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Phosphoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IRS-1 (insulin receptor substrate 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Immunoglobulin receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IgE type II, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Immunoglobulin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IgG type I, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Immunoglobulin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (IqG type IIA, core group of disease-related genes; gene probes used
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for genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Ikaros, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Hedgehog protein
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Indian, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Immunoglobulins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (J protein, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Potassium channel
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (J1 and J11, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Blood-group substances
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (K (Kell), core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Keratins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (K7, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (KAII, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Cyclin dependent kinase inhibitors
ΤТ
        (KIP2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Potassium channel
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Kvl (potassium channel-forming, voltage-regulated, 1), core group of
       disease-related genes; gene probes used for genetic profiling
       in healthcare screening and planning)
IT
    Selectins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L-myc, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Cell adhesion molecules
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Ribosomal proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L13A, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
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Ribosomal proteins

ΙT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L17, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TΤ
     Sialoglycoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LAMP-1 (lysosome-assocd. membrane protein 1), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Sialoglycoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LAMP-2 (lysosome-assocd. membrane protein 2), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Lipoprotein receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LDL, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Hormone receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LH-releasing hormone, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
TΨ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LIM homeobox proteins 1 and 2 and 3 and 4, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LIM homeobox transcription factor 1.beta., core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
ΤT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LIM-domain only proteins 1 and 2 and 3 and 4, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LMP-2 (latent-infection membrane protein 2), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Gene, animal
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LPP, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (LYDMA, LMP-7, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Kidney, disease
        (Lowe's syndrome, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Apolipoproteins
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (Lp(a), core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Immunoglobulins
     Laminins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MAD homolog 2 and 3 and 4, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MADS box transcription-enchancer factor 2A and 2B and 2C and 2D, core
        group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MAX-interacting protein 1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MCC, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MCP (membrane cofactor protein), core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Histocompatibility antigens
TT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MHC (major histocompatibility complex), class I, A and B and C, core
        group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Histocompatibility antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MHC (major histocompatibility complex), class II, complementation
        group A and B and C and D, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
    Mucins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MUC2 and MUC5AC and MUC6, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (MUM1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(Msh homoeobox homolog 1 and 2, core group of disease-related genes;

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gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Hormone receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Muellerian-inhibiting hormone, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Dwarfism
        (Mulibrey, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Myf-3 (myogenic factor 3), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Myf-4 (myogenic factor 4), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Myf-5 (myogenic factor 5), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Muscarinic receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (M5, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Cadherins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-, core group of disease-related genes; gene probes used for genetic
      profiling in healthcare screening and planning)
ΙT
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-CAM, N-CAM-2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Cel-1 adhesion molecules
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (N-CAM, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Cell adhesion molecules
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-CAM-120, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (N-ras, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NF-E1 (nuclear factor erythroid 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Neurofilament proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NF-H, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
    Neurofilament proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NF-L, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Neurofilament proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NF-M, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NF-.kappa.B (nuclear factor .kappa.B), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
    Transcription factors
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NFATc (nuclear factor, activated T-cell, cytosolic), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
    Transcription factors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NFATp (nuclear factor, activated T-cell, pre-existing), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Tachykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NK1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Tachykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NK2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Tachykinin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NK3, core group of disease-related genes; gene probes used for genetic
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profiling in healthcare screening and planning)
ΙT
     Glutamate receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NMDA-binding, type 1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
ΙT
     Glutamate receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NMDA-binding, type 2A and 2B and 2C and 2D, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Atrial natriuretic peptide receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NPR-A, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Atrial natriuretic peptide receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (NPR-B, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Nervous system
        (Norrie's disease, gene NDP, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Notch ligand-jagged 1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Orthodenticle homolog 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Cadherins
     Selectins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Protamines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Protamines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PABP (poly(A)-binding protein), 2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAC7, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAC8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAX3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PAX6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Cell adhesion molecules
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PECAM-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PHEX, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PMP-22 (peripheral myelin protein, 22,000-mol.-wt.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TΤ
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (POU box, 1 and 3 and 4, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PROX1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (PVR (poliovirus receptor), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Patched homolog, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Pax2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)
        (Prophet of Pitl, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IΤ
     Purinoceptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2U, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Purinoceptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2X, 1 through 7, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
     Purinoceptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2Y, 11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Purinoceptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (P2Y, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (R-binding, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAG1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAG2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Retinoic acid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAR-.alpha., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Retinoic acid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAR-.beta., core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Retinoic acid receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RAR-.gamma., core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    DNA formation factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RF-A (replication factor A), core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
IT
    DNA formation factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RF-C (replication factor C), core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
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planning)

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IT
     Retinoid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RGR (retinal G protein coupled receptor), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RIGUI, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Retinoid X receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RXR.alpha., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Retinoid X receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RXR.beta., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Retinoid X receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (RXR.gamma., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rathke pouch homeobox, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rb, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Blood-group substances
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rh, CcEe antigens, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Rim, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S-, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S-100, Al through A9 and B and P, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S19, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Ribosomal proteins
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (S4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S6, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Ribosomal proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (S9, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SA homolog, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SAA (serum amyloid A), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SAP (SLAM-assocd. protein), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Glycoproteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SAP (serum amyloid, P), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Glycophosphoproteins
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SCP2 (hydroxy steroid-carrier protein 2), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TΤ
     Chemokines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SDF-1.alpha. (stromal-derived factor-1.alpha.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Chemokines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SDF-1.beta. (stromal-derived factor-1.beta.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SF-1 (steroidogenic factor 1), core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Globulins, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SHBG (sex hormone-binding globulin), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
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Proteins, specific or class
ΤT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SLAM (signaling lymphocyte activation mol.), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Guanine nucleotide exchange factors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOS1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX10, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX11, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SOX9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Surfactant proteins (pulmonary)
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-A, A1 and A2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Surfactant proteins (pulmonary)
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-B, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Surfactant proteins (pulmonary)
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-C, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Surfactant proteins (pulmonary)
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SP-D, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Antigens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSEA-1 (stage-specific embryonic antigen 1), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Somatostatin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR1, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)
IT
    Somatostatin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Somatostatin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR3, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Somatostatin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR4, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Somatostatin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSTR5, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (SSX1 and SSX2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ፐጥ
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ST3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ST8, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT1, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
TT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
IT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT3, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
ΙT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Transcription factors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (STAT5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Sal-like 1, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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TT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Slug, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Sry (sex-detg. region of chromosome Y), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
TΤ
     Troponins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX5, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (T-BOX6, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Leukemia
        (T-cell, acute, gene TAL1 and TAL2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TAPA-1 (target of antiproliferative antibody, 1), core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TΤ
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TATA-binding protein-assocd., core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TEL, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TKCR, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TRC8, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TRP-1 (tyrosinase-related protein 1), core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TSG101, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (TUPLE1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Tap1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Tap2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
    Antigens
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Thy-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Tip-assocd., core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Protein receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Toll-like receptor 4, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Twist homolog, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Usher syndrome gene USH2A, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
    Cell adhesion molecules
     Cell adhesion molecules
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (VCAM-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Vasopressin receptors
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ΙT

ΙT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (V1, 1A and 1B, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Vasopressin receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (V2, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (WHSC1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (WT1 (Wilms' tumor suppressor 1), core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (Wnt inhibitory factor, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
  planning)
Disease, animal
   (Wolfram syndrome, gene WFS1, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (X-specific transcript, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (XPA, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (XPB, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (XPC, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (XPD, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (XPE, core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (XPF, core group of disease-related genes; gene probes used for genetic
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profiling in healthcare screening and planning)

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IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (XRCC9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Neuropeptide Y receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Y1, core group of disease-related genes; gene probes used for genetic
      profiling in healthcare screening and planning)
ΙT
     Neuropeptide Y receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (Y2, core group of disease-related genes; gene probes used for genetic
      profiling in healthcare screening and planning)
     Glycoproteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ZP1 (zona pellucida, 1), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Glycoproteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ZP2 (zona pellucida, 2), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Sialoglycoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ZP3 (zona pellucida, 3), core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Eye, disease
        (achromotopsia gene ACHM2, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (acidic amino acid-transporting, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (acylcarnitine-carnitine-transporting, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (adaptins, .beta.3A, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
     Phosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (adducins, .alpha. and .beta., core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Brain, disease
        (adrenoleukodystrophy, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
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Amino acids, biological studies

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(Biological study); USES (Uses)

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (alkaptonuria, gene AKU, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (amino acid-transporting, gene SLC1A6, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (amyloid .beta.-binding APBB1, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (amyloid .beta.-like, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (anion-exchanging proteins, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (antigens CD11b, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (antigens CD11c, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (antigens Mac-1 (macrophage 1), core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (apical, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (apoptosis-regulating, ligand 1 and apoptosis-inducing
   factor, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (apoptosis-regulating, neuronal apoptosis-inhibitory, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Porins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(aquaporins, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (archaete-scute homolog 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (aryl hydrocarbon receptor nuclear-transporting, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TT
    Receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (aspartate, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (astrotactins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Nervous system
IT
        (ataxia telangiectasia, genes ATD and ATM, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ataxins 1 and 2 and 3, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (atrophin 1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (attractins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (autoimmune regulator AIRE, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (axl, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
TT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (azoospermia factorl 1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Phosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (band 4.1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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Phospholipoproteins

ΙT

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(Biological study); USES (Uses)

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (band 4.2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Phospholipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (band 7.2b, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bcl-2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bcr-c-abl, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bestrophins, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bile acid-sodium-cotransporting, 1 and 2, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bile salt-transporting, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
  planning)
Biotechnology
   (biochips, design of GENOSTIC genechip device; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (blue cone pigment, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Bone morphogenetic proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bone morphogenetic protein 1, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Bone morphogenetic proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bone morphogenetic protein 3, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Bone morphogenetic proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (bone morphogenetic protein 5, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(brain-derived, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-Ha-ras, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-Ki-ras2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-R-ras, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-abl1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-abl2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-akt1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-akt2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ems1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-erb, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-erb2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-erbA, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ets-1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(c-ets-2, core group of disease-related genes; gene probes used for

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genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-fes, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-fgr, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-fos, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-fps, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-gro1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-gro2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΨ
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-int1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Gene, animal
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-int3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-int4, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-jun, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-kit, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-lco, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-lyn, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)

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IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-maf, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΥ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mas1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mcf2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mel, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mos, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-mpl, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-myb, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-myc, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ovc, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-raf, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ralb, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-rel, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (c-ros, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
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Gene, animal

ΙT

ΙT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-sis, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-ski, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-sno, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-spil, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-src, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (c-tim, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (calcium, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (calcium-sodium-exchanging, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (cardiac-specific homeobox CSX, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (carnitine-transporting, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (cartilage oligomeric matrix, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (cartilage-hair hypoplasia, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Phosphoproteins
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (caveolins, 3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cellubrevins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ceroid lipofuscinosis neuronal 2-6, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
ΙT
    Cytokine receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (chemokine, fusin, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
TΤ
    Cholecystokinin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cholecystokinin B, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
IT
    Biliary tract
        (cholestasis, intrahepatic, gene FIC1, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
       screening and planning)
TT.
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cholesterol ester-exchanging, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (chondritin sulfate A-placental, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Eye, disease
        (choroideremia, gene CHM, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
ΙT
    Neurotrophic factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ciliary, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Atrial natriuretic peptide receptors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (clearance, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cleavage signal-1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
       planning)
IT
     Palate
        (cleft, gene CPX, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
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Gene, animal

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CD69 (antigen) CD7 (antigen)

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (clk1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (cochlins, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Phosphoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (cofilins, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Protein receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (collagen, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (collapsins, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (contactins, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Genetic methods
   (core genes for design and manuf. of GENOSTIC genechip device; gene
   probes used for genetic profiling in healthcare screening and
  planning)
Hemochromatosis
Niemann-Pick disease
   (core group of disease-related genes; gene probes used for genetic
profiling in healthcare screening and planning)
ACTH receptors
Albumins, biological studies
Amelogenins
Amyloid precursor proteins
Androgen receptors
Aromatic hydrocarbon receptors
Arrestins
Benzodiazepine receptors
CD1 (antigen)
CD14 (antigen)
CD19 (antigen)
CD2 (antigen)
CD20 (antigen)
CD22 (antigen)
CD26 (antigen)
CD28 (antigen)
CD3 (antigen)
CD34 (antigen)
CD36 (antigen)
CD38 (antigen)
CD4 (antigen)
CD40 (antigen)
CD44 (antigen)
CD45 (antigen)
CD5 (antigen)
CD59 (antigen)
CD68 (antigen)
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CD8 (antigen)
CD80 (antigen)
CD86 (antigen)
CFTR (cystic fibrosis transmembrane conductance regulator)
CTLA-4 (antigen)
Calcitonin gene-related peptide receptors
Calcitonin receptors
Calnexin
Calretinin.
Cannabinoid receptors
Carcinoembryonic antigen
Cell adhesion molecules
Ciliary neurotrophic factor
Clathrin
Clusterin
Corticosteroid receptors
Corticotropin releasing factor receptors
Cyclophilins
Desmins
Dynamin
Dyneins
Dystrophin
Elastins
Epidermal growth factor receptors
Erythropoietin receptors
FSH receptors
Fas antigen
Ferritins
Fibrinogens
Fibronectins
GTPase-activating protein
Gastrin-releasing peptide receptors
Gelsolin
Glucagon receptors
Glucagon-like peptide-1 receptors
Glucocorticoid receptors
Gonadotropin receptors
Gonadotropin-releasing hormone receptor
Growth factor receptors
Growth hormone receptors
Growth hormone-releasing hormone receptors
Hemoglobins
Hemopexins
Hepatocyte growth factor
Heregulins
Immunoglobulin receptors
Insulin receptors
Insulin-like growth factor I receptors
Insulin-like growth factor II receptors
Interleukin 1 receptor antagonist
Interleukin 1 receptors
Interleukin 10
Interleukin 11
Interleukin 13
Interleukin 1.alpha.
Interleukin 1.beta.
Interleukin 3
Interleukin 3 receptors
Interleukin 4
Interleukin 4 receptors
Interleukin 5
Interleukin 5 receptors
Interleukin 6
Interleukin 6 receptors
Interleukin 7
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Interleukin 7 receptors

Interleukin 8 Interleukin 8 receptors Interleukin 9 Intrinsic factors Invariant chain (class II antigen) LFA-3 (antigen) Lactoferrins Leptin receptors Leukemia inhibitory factor Leukemia inhibitory factor receptors Leukosialin Lymphotoxin Macrophage colony-stimulating factor receptors Macrophage inflammatory protein 2 Metallothioneins Mineralocorticoid receptors Moesins Monocyte chemoattractant protein-1 Multidrug resistance proteins Myelin P0 protein Myelin basic protein Myoglobins Nerve growth factor receptors Neurotensin receptors Nicotinic receptors Opioid receptors Osteocalcins Osteonectin Osteopontin Oxytocin receptors Parathyroid hormone receptors Parvalbumins Pituitary adenylate cyclase-activating polypeptide receptor Platelet-activating factor receptors Platelet-derived growth factor receptors Platelet-derived growth factors Prion proteins Progesterone receptors Prolactin receptors Proliferating cell nuclear antigen Prostanoid receptors Proteolipid protein -Radixin Ras proteins Rhodopsins Ryanodine receptors Secretin receptors Stem cell factor Sulfonylurea receptors Synaptophysin TCR .alpha..beta. (receptor) Talin Tau factor Tenascins Thrombin receptors Thrombomodulin Thrombospondins Thromboxane receptors Thyroglobulin Thyrotropin receptors Thyrotropin-releasing hormone receptors Titins Transcortins Transferrin receptors Transferrins

Transthyretin

Tubulins Tumor necrosis factor receptors Tumor necrosis factors Urokinase-type plasminogen activator receptors VIP receptors Vasopressin receptors Villin Vimentins Vinculin Vitamin D receptors neu (receptor) p53 (protein) .alpha.-Fetoproteins .alpha.1-Acid glycoprotein RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (corticosteroid-binding, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cortisol, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cot, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (crk, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (crk1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cubilins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Ion channel RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cyclic nucleotide gated .alpha.3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Phosphoproteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cyclins C, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cysteine-rich, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning) Proteins, specific or class

IT

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cystinosins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (cytokine-suppressive antiinflammatory drug-binding 1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (defender against cell death 1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (deleted in azoospermia, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
    Mutation
ΙT
        (deletion, detection of; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Sialoglycoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dentin sialophosphoprotein, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
    Receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (deoxycorticosterone, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
    Allele frequency
    Genetic polymorphism
        (detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (diaphanous 1 and 2, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (diastrophic dysplasia sulfate-transporting, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
        (disease, holoprosencephaly, gene HPE1 and HPE2 and HPE3 and HPE4, core
        group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (dopamine-transporting, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

(doublecortins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning). IT Enzymes, properties RL: ANT (Analyte); PRP (Properties); ANST (Analytical study) (drug-metabolizing, genetic variation in; gene probes used for genetic profiling in healthcare screening and planning) IT Mutation (duplication, detection of; gene probes used for genetic profiling in healthcare screening and planning) TT Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (dynorphin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (dysferlin, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (dyskerins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Nervous system (dystonia, genes DYT1 and DYT3 and DYT6 and DYT7 and CSE, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Glycoproteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (dystrophin-assocd., 35,000-mol.-wt., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Glycoproteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (dystrophin-assocd., 43,000-mol.-wt., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Glycoproteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (dystrophin-assocd., 50,000-mol.-wt., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Initiation factors (protein formation) RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (eIF-4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (ect2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Flavoproteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (electron-transporting flavoproteins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

(emerins, core group of disease-related genes; gene probes used for

(Biological study); USES (Uses).

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genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (empty spiracles homolog 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (endobrevins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT·
     Heart
        (endocardium, fibroelastosis 2, gene EFE2, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (endometrial bleeding-assocd. factor, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ephrin A and B, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (erythroid kruppel-like factor, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (exotosin 1 and 2 and 3, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Intestine, neoplasm
       (familial polyposis, clin. management of; gene probes used for genetic
     profiling in healthcare screening and planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (fertilin, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (folate, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (folate-transporting, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (follicular lymphoma variant translocation gene FVT1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     Proteins, specific or class
IT
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (frataxins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ganglioside GM2-activator, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gap junction-specific, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Gastrointestinal hormone receptors
     Peptide receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gastric inhibitory polypeptide, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gastrulation brain homoeobox 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene BCL1 and BCL4 through BCL10, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene BCL2-related A1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
     Cockayne's syndrome
        (gene CKN1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Deafness
        (gene DFNAS AND DDP, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC1, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gene ERCC3, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(gene ERCC4, core group of disease-related genes; gene probes used for

genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene ERCC6, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Kallmann syndrome (gene KAL1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene RAD51, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene RAD52, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class ΙT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene RAD54, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene RAD55, core group of disease-related genes; gene probes used for genetic **profiling** in healthcare screening and planning) TΤ Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene RAD57, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Sjogren's syndrome (gene SSA1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Transcription factors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene TFE3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Wiskott-Aldrich syndrome (gene WASP, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene WT2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene WT4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene bcl-3, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (gene c-erbB4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning)

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Proteins, specific or class

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Proteins, specific or class

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene mutL, homolog, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene mutS, homolog 1 and 2, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Genome
Genotyping (method)
Health
Nucleic acid hybridization
Prognosis
Test kits
   (gene probes used for genetic profiling in healthcare
   screening and planning)
Gene, animal
RL: ANT (Analyte); BPR (Biological process); THU (Therapeutic use); ANST
(Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
   (gene probes used for genetic profiling in healthcare
   screening and planning)
Antibodies
Probes (nucleic acid)
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); USES (Uses)
   (gene probes used for genetic profiling in healthcare
   screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene smoothened, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt4, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt5, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt7, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gene wnt8, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (geniospasm 1, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (gephyrins, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Neurotrophic factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glial-derived neurotrophic factor, core group of disease-related
   genes; gene probes used for genetic profiling in healthcare
   screening and planning)
Neurotrophic factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glial-derived, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Chloride channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glioma CCC, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glucose phosphate-transporting, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glucose-transporting, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glucose/galactose-transporting, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glutamate-transporting, 1 and 2, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glutamine-transporting, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
  planning)
Transport proteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (qlycine-transporting, core group of disease-related genes; gene probes
   used for genetic profiling in healthcare screening and
   planning)
Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glycophorin B, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Glycophorins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (glycophorin C, core group of disease-related genes; gene probes used
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for genetic profiling in healthcare screening and planning)

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IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (glypican 3, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (green cone pigment, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (growth arrest-specific homeobox, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (growth factor receptor-bound protein 2, core group of disease
        -related genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (growth-related, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (guanylate cyclase-activating 1A, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
     G proteins (guanine nucleotide-binding proteins)
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (gusducin .alpha., core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
     Kinesins
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (heavy and light chains, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hepatic 1 and 2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Growth factor receptors
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (heregulin, erbB-3, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
ΙT
     Kininogens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (high-mol.-wt., core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     Gene, animal
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hsl, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hs2, core group of disease-related genes; gene probes used for genetic
        profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (huntingtin, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hydrogen ion-sodium-exchanging, 1-5, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hydrogen ion-transporting, VPP1 and VPP3, core group of
        disease-related genes; gene probes used for genetic profiling
      in healthcare screening and planning)
ΙT
     Embryo, animal
        (hypohidrotic ectodermal dysplasia, gene ED1, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Mutation
        (insertion, detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Transcription factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (insulin promoter factor 1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (int-2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     CD antigens
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (integrin .alpha.7, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening
        and planning)
     CD antigens
IT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (integrin .beta.5, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
       planning)
IT
     CD antigens
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (integrin .beta.7, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interferon regulatory factor 4, core group of disease-related
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genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Interleukin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 10 receptors, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Interleukin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 11 receptors, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Interleukin receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 13 receptors, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Interleukin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (interleukin 9 receptors, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
    Lipoprotein receptors
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (intermediate-d. lipoprotein receptors, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Phosphoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (kinectins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lamins, A/C, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (latent transforming growth factor-.beta.-binding 2, core group
        of disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (leukocyte-specific transcript 1, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
TΤ
    Leukotriene receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (leukotriene B4, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
IT
     Leukotriene receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (leukotriene D4, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
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TΤ

Immunoglobulins

IT

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ΙT

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ΙT

(Biological study); USES (Uses)

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (light chains, .kappa. const. and variable regions, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Muscular dystrophy
   (limb-girdle, Genes LHX1 and LHX2 and LHX3 and LHX4, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (limbic-assocd. membrane, core group of disease-related genes;
 gene probes used for genetic profiling in healthcare screening
   and planning)
Annexins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lipocortins, 1, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Potassium channel
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (long QT-type 2, core group of disease-related genes; gene probes used
 for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (loricrins, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and planning)
Lipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (low-d., 1, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Lipoproteins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (low-d., 2, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Gene, animal
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lpsa, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lunatic fringe secreted, core group of disease-related genes
   ; gene probes used for genetic profiling in healthcare screening and
   planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lymphoblastic leukemia-derived sequence 1, core group of
   disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Transcription factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (lymphoid enhancer-binding factor, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Lymphokine receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(lymphotoxin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Cytokine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (macrophage inflammatory protein 1.alpha. receptors, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Cytokines RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (macrophage inflammatory protein, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Cytokine receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (macrophage inflammatory protein-2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Cytokines RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (macrophage-activating factor, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Eye, disease (macular dystrophy, gene VMD1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (malignant proliferation MPE, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class ΙT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (manic fringe secreted, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Agglutinins and Lectins TΤ RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (mannose-binding, 1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (mannose-binding, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class IT RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (marenostrins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Gene, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (mdm-2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Pituitary hormone receptors

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (melanocortin 1, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
IT
     Pituitary hormone receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (melanocortin 4, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
TT
     Pituitary hormone receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (melanocortin, melanocortin 2 receptors, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (menin, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mesoderm-specific transcript, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (met, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (microphthalamia-assocd., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (microtubule-assocd., core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (midline 1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mismatch repair gene PMS1 and PMS2, core group of disease
        -related genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
    Mutation
        (missense, detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (monoamine-transporting, 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
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IT

Transport proteins

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (monocarboxylic acid-transporting, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Lipids, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (mucolipids, metabolic disorders, mucolipidosis, core group of
        disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
    (Biological study); USES (Uses)
        (mycilins, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
IT
     Myeloproliferative disorders
        (myelodysplasia, gene MDS1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     Lymphokines
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myeloid leukemia factor-1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myomesins, 1 and 2, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
ፐጥ
     Vision
        (myopia, genes MYP1 and MYP2, core group of disease-related genes; gene
      probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myosin-binding C, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (myotubularins, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (natural resistance-assocd. macrophage protein 1, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (needins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     Kidney, disease
        (nephronophthisis 1 and 2, core group of disease-related genes; gene
      probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (neural retina-specific, core group of disease-related genes; gene
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probes used for genetic profiling in healthcare screening and

planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neurexins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Growth factors, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neurite extension factors, 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Growth inhibitors, animal RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neurite growth inhibitors, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Protein receptors Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neuronal mol.-1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neurotransmitter-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neutral amino-acid-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (neutrophil cystolic factor 1 and 2, core group of disease -related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (niacin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT. Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (nibrins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) ΙT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (nodal, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (noggin, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) IT Calcium channel RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

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(Biological study); USES (Uses)

(non-voltage gated 1 .alpha. and .beta. and .gamma. and type IV.alpha. and .beta., core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Mutation (nonsense, detection of; gene probes used for genetic profiling in healthcare screening and planning) Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (norepinephrine-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (nuclear mitotic app. protein 1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Albinism (ocular, type 1, gene OA1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Albinism (oculocutaneous, gene OCA2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (oligophrenin-1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (oncostatin M, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Receptors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (orexin 1 and 2, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Transport proteins RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (org. anion-transporting, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Proteins, specific or class RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (otoferlins, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Cyclin dependent kinase inhibitors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (p16INK4, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Cyclin dependent kinase inhibitors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (p21CIP1/WAF1, core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) Cyclin dependent kinase inhibitors RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(p27KIP1, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (p54, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Transcription factors
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (paired box homeodomain 2 and 3, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare screening
       and planning)
TT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pancretic lipase-related 1 and 2, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Paralysis
        (paraplegia, gene SPG7, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
ΙŢ
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (parkins, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peanut-like 1, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pendrins, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peptide-transporting, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peripherins (eye rod outer segment), core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
IT
    Phosphoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peripherins (neuronal intermediate filament), core group of
       disease-related genes; gene probes used for genetic profiling
       in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (peroxisomal membrane protein 3, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
       and planning)
IT
    Receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(peroxisome 1, core group of disease-related genes; gene probes used

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for genetic profiling in healthcare screening and planning)
 ΙT
     Peroxisome proliferators
         (peroxisome biogenesis factors 1 and 6 and 7, core group of disease-
      related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
TΥ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (phosphatase and tensin homolog, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
 IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (phosphatidylinositol transfer protein, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
 IT
     Glycophospholipids
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (phosphatidylinositol-contg., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
TI
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (pim-1, core group of disease-related genes; gene probes used
         for genetic profiling in healthcare screening and planning)
 IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (plakophilin 1, core group of disease-related genes; gene
      probes used for genetic profiling in healthcare screening and
        planning)
 IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (platelet glycoprotein 1b.alpha. and 1b.beta. and 1b.delta.
        and IX and V, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
 TT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (plectins, 1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
 IT
     Growth factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (pleiotrophin, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
 IT
     Kidney, disease
         (polycystic, gene PKHD1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
 IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (polycystins, 1 and 2, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare screening and
        planning)
 IT
     Proteins, specific or class
      RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
      (Biological study); USES (Uses)
         (postsynaptic d.-95, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
 IT
     Transcription factors
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pre-B-cell leukemia 1, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Disease, animal
        (prognosis and management of; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (prohibitins, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (proline-rich, BstNI subfamily 1 and 3 and 4, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IΤ
     Leukemia
        (promyelocytic, gene PML, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Glycoproteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (prosaposins, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pti-lsea, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (pvt-1, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
TT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (r-myc, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
     Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (rabphilins, 3A, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
TT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (rabphilins, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (radical fringe secreted, core group of disease-related genes
        ; gene probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Mutation
        (rearrangement, detection of; gene probes used for genetic profiling in
        healthcare screening and planning)
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IT

Heregulins

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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (receptors, ErbB-3, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
     Interleukin 10
     Interleukin 11
     Interleukin 12
     Interleukin 13
    Interleukin 9
     Pleiotrophins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (receptors, core group of disease-related genes; gene probes
      used for genetic profiling in
        healthcare screening and planning)
    Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (red cone pigment, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
ΙT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ret, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Eye, disease
        (retinitis pigmentosa, genes RP1 and RP2 and RP3 and RP6, core
        group of disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (retinol-binding, 1 and 2 and 4, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Eye, disease
        (retinoschisis gene RS, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
    Brain, neoplasm
        (rhabdoid, gene SMARCB1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (rod outer membrane segment membrane protein 1, core group of
      disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (semaphorin A4 and A5 adn D and E and F and W, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Transport proteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (serotonin-transporting, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Immunodeficiency
IT.
        (severe combined, gene SCIDA, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
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ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (short stature homeobox, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
       and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sine oculis homoeobox homolog 1 and 2 and 5, core group of
       disease-related genes; gene probes used for genetic profiling in
       healthcare screening and planning)
ΙT
    Ribonucleoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (small nuclear RNA-contg., N, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
    Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (smoothelins, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (solute carrier family, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
       planning)
IT
    Hedgehog protein
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sonic, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sorcins, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
TT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (sperm adhesion mol., core group of disease-related genes;
       gene probes used for genetic profiling in healthcare screening and
       planning)
TΤ
    Nervous system
        (spinocerebellar ataxia, gene SCA8, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
TT
    Mutation
        (splice site, detection of; gene probes used for genetic profiling in
       healthcare screening and planning)
    Enzymes, biological studies
TΤ
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (stratum corneum chymotryptic, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
        screening and planning)
TT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (surfeit 1, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and planning)
IT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
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(Biological study); USES (Uses)

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(survival of motor neuron 1, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare screening
       and planning)
IT
    Phosphoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (synapsins II, 2a and 2b, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
       planning)
IT
    Phosphoproteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (synapsins, I, la and lb, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
TT
    Transport proteins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (synaptic vesicle amine-transporting, core group of disease-related
       genes; gene probes used for genetic profiling in healthcare
       screening and planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (synaptic vesicle protein 2, core group of disease-related
     genes; gene probes used for genetic profiling in healthcare
       screening and planning)
    Proteins, specific or class
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (synaptogyrins, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
ΙT
    Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (synaptosomal-assocd., 25,000-mol.-wt., core group of
       disease-related genes; gene probes used for genetic profiling in
       healthcare screening and planning)
IT
    Syndecans
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (syndecan-2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    Syndecans
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (syndecan-4, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
    Syndecans
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses).
        (syndecans-1, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
    Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tc21, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
TΤ
    Transcription factors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (termination 1 and 2 and 3, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
       and planning)
TT
    Proteins, specific or class
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

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(Biological study); USES (Uses)
        (testis-specific protein Y, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (thyroid receptor auxiliary, core group of disease-related genes; lgene
     probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (thyrotroph embryonic factor, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Globulins, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (thyroxine-binding, core group of disease-related genes; gene probes.
     used for genetic profiling in healthcare screening and
        planning)
ΙT
     G proteins (guanine nucleotide-binding proteins)
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (transducing GNAT1 and GNAT2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
ΙT
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (translationally-controlled tumor protein 1, core group of disease-
      related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (treacle, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IΤ
     Proteins, specific or class
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tremor, essential, 2, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (triglyceride-transferring, core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Peptides, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (trypsinogen-activating, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
    Proteins, specific or class
ΙT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tubby-like protein 1, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
    Brain, disease
ΙT
        (tuberous sclerosis, gene TSC1 and TSC2, core group of disease-related
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genes; gene probes used for genetic profiling in healthcare

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screening and planning)
ΙT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 1, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 2, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 3, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 4, core group of
      disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 5, core group of
      disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
TΨ
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor necrosis factor receptor-assocd. factor 6, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor suppressor, DRA, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor-assocd. p63, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tumor-assocd. p73, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
     Complement receptors
     Fibroblast growth factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 1, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
        planning)
IT
     Complement receptors
     Fibroblast growth factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 2, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
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ΙT
     Fibroblast growth factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
    Collagens, biological studies
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type I, .alpha.1 and .alpha.2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
    Collagens, biological studies
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type II, .alpha.1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
IT
    Activin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type IIB, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
     Collagens, biological studies
ΙT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type III, .alpha.1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
    Collagens, biological studies
TT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type IV, .alpha.1 through .alpha.6, core group of disease-
     related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type IX, .alpha.2 and .alpha.3, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
ΙT
    Collagens, biological studies
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type V, .alpha.1 and .alpha.2, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare screening
        and planning)
    Collagens, biological studies
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type VI, .alpha.1 and .alpha.2 and .alpha.3, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Collagens, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type VII, .alpha.1, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and planning)
    Collagens, biological studies
IΤ
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type X, .alpha.1, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Collagens, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type XVII, .alpha.1, core group of disease-related genes;
        gene probes used for genetic profiling in healthcare screening and
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planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ubiquitin fusion degeneration 1-like, core group of disease
        -related genes; gene probes used for genetic profiling in healthcare
        screening and planning)
IT
     Enzymes, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ubiquitin-activating, core group of disease-related genes;
      gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Glycoproteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (undulins, 1, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and planning)
IT
     Peptides, biological studies
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (vasoinhibitory, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare screening and planning)
ΙT
     Gene, animal
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (vavtrk, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
    Lipoproteins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (very-low-d., core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
        planning)
ΙT
     Calcium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (voltage-dependent, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
IT
     Potassium channel
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (voltage-gated E1 and Q1 and Q2 and Q3 and Q4, core group of
        disease-related genes; gene probes used for genetic profiling in
        healthcare screening and planning)
IT
     Calcium channel
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (voltage-gated type 1.beta., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
    Nervous system
        (von Hippel-Lindau disease, gene VHL, core group of disease-related
        genes; gene probes used for genetic profiling in healthcare
        screening and planning)
     Proteins, specific or class
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (winged helix nude, core group of disease-related genes; gene
      probes used for genetic profiling in healthcare screening and
        planning)
IT
     Skin, disease
        (xeroderma pigmentosum I, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
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ΙT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (yes, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
     Gene, animal
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (yuasa, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
TΤ
    Adhesins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (zonadhesins, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
     Opioid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.kappa.-opioid, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     GABA receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta. and .gamma. subunits, core group of disease-related
      genes; gene probes used for genetic profiling in healthcare
        screening and planning)
ĮΤ
     Fibrinogens
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta. and .gamma., core group of disease-related genes;
     gene probes used for genetic profiling in healthcare screening
        and planning)
IT
     Glycine receptors
     Granulocyte-macrophage colony-stimulating factor receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta., core group of disease-related genes;
        gene probes used for genetic profiling in healthcare
        screening and planning)
TT
     Catenins
     Interferons
     Interleukin 8 receptors
     Peroxisome proliferator-activated receptors
     Thyroid hormone receptors
     Vitronectin receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha., core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening
        and planning)
IT
     Actinins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-, 2 and 3, core group of disease-related genes; gene probes
      used for genetic profiling in healthcare screening and
        planning)
IT
     Actins
     Spectrins
     Transforming growth factors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-, core group of disease-related genes; gene probes used
      for genetic profiling in healthcare
        screening and planning)
TΤ
     Thalassemia
        (.alpha.-, gene ATRX, core group of disease-related genes; gene probes
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used for genetic profiling in healthcare screening and
        planning)
IT
     Interleukin 2 receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-chain, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
IT
    Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-tectorin, core group of disease-related genes; gene
     probes used for genetic profiling in healthcare screening and
        planning)
IT
     Proteins, specific or class
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.-tocopherol-binding, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
    Haptoglobin
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.1 and .alpha.2, core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
ΙT
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.8, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
     Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.9, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IT
    Crystallins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.A-, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Crystallins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.B-, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and planning)
IT
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.1, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
    Adrenoceptors
     Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.2, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and
        planning)
ΙT
    Macroglobulins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha.2-, core group of disease-related genes; gene probes used for
      genetic profiling in healthcare screening and planning)
IT
     Receptors
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RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL

ΙT

IT

IT

IT

ΙT

IT

IT

ΙT

IT

IT

IT

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(Biological study); USES (Uses)
   (.alpha.2-macroglobulin, core group of disease-related genes; gene
   probes used for genetic profiling in healthcare screening and
   planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.alpha.3, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.alpha.4, core group of disease-related genes; gene probes used for
   genetic profiling in healthcare screening and planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.alpha.5, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and planning)
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.alpha.6, core group of disease-related genes; gene probes used for
 genetic profiling in healthcare screening and planning)
Interferons
Interleukin 8 receptors
Thyroid hormone receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.beta., core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Actins
Catenins
Spectrins
Transforming growth factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.beta.-, core group of disease-related genes; gene probes used
   for genetic profiling in healthcare screening and planning)
Interleukin 2 receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.beta.-chain, core group of disease-related genes; gene probes used
 for genetic profiling in healthcare screening and planning)
Proteins, specific or class
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.beta.-galactosidase-protective, core group of disease-related genes;
   gene probes used for genetic profiling in healthcare
   screening and planning)
Transforming growth factors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.beta.-induced, core group of disease-related genes; gene probes
 used for genetic profiling in healthcare screening and
   planning)
Transforming growth factor receptors
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
   (.beta.-transforming growth factor type II, core group of
 disease-related genes; gene probes used for genetic profiling
   in healthcare screening and planning)
Adrenoceptors
Integrins
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
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(.beta.1, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and
        planning)
ΙT
    Adrenoceptors
     Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.2, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and
        planning)
IT
    Microglobulins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.2-, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
ΙT
    Adrenoceptors
    Integrins
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.3, core group of disease-related genes; gene probes used
     for genetic profiling in healthcare screening and
        planning)
ΙT
    Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.4, core group of disease-related genes; gene probes used for
     genetic profiling in healthcare screening and planning)
IT
     Integrins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.6, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
TT
    Catenins
     Interferons
    Peroxisome proliferator-activated receptors
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma., core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and
        planning)
ΙT
    Crystallins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
ΙT
    Actins
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-actins, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
IT
     Interleukin 2 receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-chain, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
ΙT
     Interferon receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.gamma.-interferon, core group of disease-related genes; gene probes
        used for genetic profiling in healthcare screening and
        planning)
     Opioid receptors
IT
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
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(.delta.-opioid, core group of disease-related genes; gene probes used

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for genetic profiling in healthcare screening and planning)
ΙT
     Opioid receptors
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.mu.-opioid, core group of disease-related genes; gene probes
     used for genetic profiling in healthcare screening and
        planning)
TΤ
     9032-64-8, Nucleotide pyrophosphatase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2 and 3, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
ΙT
     80146-85-6, Transglutaminase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2 and 4, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
                             9004-06-2, Elastase
                                                    39391-18-9
TΤ
     9002-08-8, Trypsinogen
     Phosphomannomutase
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1 and 2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
     9002-72-6, Somatotropin 9023-88-5, Phosphomannose isomerase
TT
                             37205-61-1, Protease inhibitor
     Galactosyltransferase
                                                              152166-53-5,
    Neurotrophic factor receptor kinase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΤT
     9038-14-6, Flavin-contg. monooxygenase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1-4, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     76901-00-3, Platelet-activating factor acetylhydrolase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (1B and 2, core group of disease-related genes; gene probes used for
        genetic profiling in healthcare screening and planning)
IΤ
     56626-18-7, Fucosyltransferase
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (2 and 3 and 6, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
     39391-18-9, Prostaglandin endoperoxide synthase
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (2, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
IT
     9035-37-4, Cytochrome b
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (245.alpha. and 245.beta., core group of disease-related genes; gene
        probes used for genetic profiling in healthcare screening and
        planning)
IT
     9001-01-8, Kallikrein
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (3, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     9001-60-9, Lactate dehydrogenase
                                        9001-66-5, Monoamine oxidase
     9027-52-5, Hexosaminidase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A and B, core group of disease-related genes; gene probes used for
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genetic profiling in healthcare screening and planning)
ΙT
    9031-96-3, Peptidase A
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (A and C and E and S, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
IT
    9033-07-2, Glycosyltransferase
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (ABO blood group, core group of disease-related genes; gene probes used
       for genetic profiling in healthcare screening and planning)
IT
    9002-69-1, Relaxin
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (H1 and H2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
    86480-67-3, Ubiquitin C-terminal hydrolase
IT
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (L1, core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
ΙT
    213903-53-8, Cryptochrome 1
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (and cryptochrome 2, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
IT
    50-56-6, Oxytocin, biological studies 70-18-8, Glutathione, biological
              113-79-1 1393-25-5, Secretin
                                               9000-81-1, Acetylcholinesterase
    9000-83-3, Complex V (mitochondrial electron transport)
                                                               9000-86-6,
                                                             9000-92-4, Amylase
    Alanine aminotransferase
                                9000-90-2, .alpha.-Amylase
                                                        9000-97-9
    9000-94-6, Antithrombin III
                                  9000-96-8, Arginase
                                                                     9001-03-0,
                         9001-05-2, Catalase
                                              9001-06-3, Chitotriosidase
    Carbonic anhydrase
    9001-08-5, Butyrylcholinesterase
                                       9001-10-9, Pepsinogen
                                                               9001-12-1,
    Matrix metalloproteinase 1
                                 9001-15-4, Creatine kinase
                                                              9001-16-5,
                                                    9001-18-7, Dihydrolipoyl
    Complex IV (mitochondrial electron transport)
                    9001-24-5, Blood-coagulation factor V
                                                            9001-25-6,
    dehydrogenase
    Blood-coagulation factor VII
                                   9001-27-8, Blood-coagulation factor VIII
    9001-28-9, Blood-coagulation factor IX
                                             9001-29-0, Blood-coagulation
    factor X 9001-30-3, Blood-coagulation factor XII
                                                         9001-36-9,
                  9001-39-2, Glucose 6 phosphatase
                                                     9001-40-5, Glucose 6
                             9001-41-6, Phosphoglucose isomerase
                                                                   9001-42-7,
    phosphate dehydrogenase
                          9001-45-0, .beta.-Glucuronidase
                                                             9001-47-2,
     .alpha.-Glucosidase
                  9001-48-3, Glutathione reductase
                                                     9001-50-7, Glyceraldehyde
    Glutaminase
                                                        9001-52-9, Fructose
     3 phosphate dehydrogenase
                                9001-51-8, Hexokinase
                                               9001-58-5, Isocitrate
                    9001-54-1, Hyaluronidase
    diphosphatase
                                                 9001-63-2, Lysozyme
                    9001-59-6, Pyruvate kinase
    dehydrogenase
                                      9001-67-6, Neuraminidase
                                                                 9001-69-8,
     9001-64-3, Malate dehydrogenase
    Ornithine transcarbamoylase
                                  9001-75-6, Pepsin
                                                      9001-80-3,
                          9001-81-4, Phosphoglucomutase
                                                           9001-83-6,
    Phosphofructokinase
                               9001-84-7, Phospholipase A2
                                                             9001-86-9,
    Phosphoglycerate kinase
                                                       9001-91-6, Plasminogen
                      9001-88-1, Phosphorylase kinase
     Phospholipase C
     9001-97-2, Glycogen branching enzyme 9002-02-2, Succinate dehydrogenase
     9002-03-3, Dihydrofolate reductase 9002-10-2, Tyrosinase
                                                                 9002-12-4,
                    9002-61-3, Chorionic gonadotrophin
                                                         9002-62-4, Prolactin,
    Urate oxidase
                          9002-64-6, Parathyroid hormone
                                                           9002-68-0, FSH
    biological studies
                     9002-76-0, Gastrin 9003-99-0, Eosinophil peroxidase
     9002-71-5, TSH
     9004-02-8, Lipoprotein lipase 9004-10-8, Insulin, biological studies
     9007-43-6, Cytochrome c, biological studies
                                                  9011-97-6, Cholecystokinin
                                              9012-31-1, Acetyl-CoA synthase
     9012-25-3, Catechol-O-methyltransferase
     9012-39-9, ATP sulfurylase 9012-42-4, Adenylate cyclase
                                                                 9012-47-9,
    Amylo-1,6-glucosidase 9012-49-1, Aspartate transcarbamoylase
     9012-52-6, Methionine adenosyltransferase
                                                9012-56-0, Amidase
     9012-78-6, Choline acetyltransferase 9012-90-2, DNA polymerase
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9012-96-8, Cystathionase 9013-02-9,

9012-93-5, Ferrochelatase

Adenylate kinase 9013-08-5, Phosphoenolpyruvate carboxykinase 9013-18-7, Long chain acyl coa synthetase 9013-38-1, Dopamine .beta.-hydroxylase 9013-55-2, Blood-coagulation factor XI 9013-56-3, Blood-coagulation factor XIII 9013-66-5, Glutathione peroxidase 9013-75-6, Histidase 9014-08-8, Enolase 9014-19-1, Pyruvate 9014-24-8, RNA polymerase 9014-36-2, Succinate thiokinase carboxylase 9014-42-0, Thrombopoietin 9014-48-6, Transketolase 9014-51-1, Tryptophan 2,3-dioxygenase 9014-55-5, Tyrosine aminotransferase 9014-56-6, Glycogen synthase 9014-74-8, Enterokinase Alanine-glyoxylate aminotransferase 9015-71-8, ACTH-releasing hormone 9015-81-0, 17.beta.-Hydroxy steroid dehydrogenase 9015-82-1, Angiotensin converting enzyme 9015-83-2, Phosphoribosyl pyrophosphate synthetase 9015-85-4, DNA ligase 9015-94-5, Renin, biological studies 9016-11-9, Galactose 1-phosphate uridylyltransferase 9016-12-0 9016-17-5, Arylsulfatase 9016-18-6, Carboxylesterase 9023-26-1, COA transferase 9023-58-9, Arginosuccinate synthetase 9023-56-7, CTP synthetase 9023-62-5, Glutathione synthetase 9023-64-7, Glutamate-cysteine ligase 9023-70-5, Glutamine synthase 9023-69-2, Asparagine synthetase 9023-78-3, Triose phosphate isomerase 9023-90-9, Methylmalonyl-CoA 9023-91-0, Phosphoglycerate mutase 9023-93-2, Acetyl-CoA 9023-94-3, Propionyl-CoA carboxylase 9023-99-8, carboxylase Cystathionine .beta.-synthase 9024-25-3, Aconitase 9024-58-2, Glutamate decarboxylase 9024-70-8, Uroporphyrinogen decarboxylase 9024-78-6, Kynureninase 9024-93-5, Dihydroorotase 9025-06-3, Cytidine deaminase 9024-99-1, Malonyl-CoA decarboxylase 9025-15-4, Biotinidase 9025-26-7, Cathepsin D 9025-10-9, AMP deaminase 9025-35-8, .alpha.-Galactosidase 9025-42-7, .alpha.-9025-32-5 9025-43-8, .beta.-Mannosidase 9025-52-9, Mannosidase Trehalase 9025-54-1, Adenosylhomocysteinase 9025-62-1, Steroid sulfatase 9025-90-5, Hydroxyacyl glutathione hydrolase 9026-00-0, Cholesterol ester hydrolase 9026-22-6, UDP-glucose pyrophosphorylase 9026-23-7, Carbamoylphosphate synthetase 9026-51-1, Nucleoside diphosphate kinase 9026-59-9, Guanylate kinase 9026-89-5, Dihydropyrimidine dehydrogenase 9026-93-1, Adenosine deaminase 9027-03-6, Complex III (mitochondrial electron transport) 9027-13-8, 9027-27-4, 9027-21-8, Carnosinase Enoyl-CoA hydratase 9027-34-3 .beta.-Ureidopropionase 9027-33-2, N-Acetyltransferase 9027-43-4, 3-Oxoacid CoA transferase 9027-44-5, HMG-CoA synthase 9027-46-7, Thiolase II 9027-67-2, Terminal deoxynucleotidyltransferase 9027-80-9, Adenine phosphoribosyltransferase 9027-81-0, Adenylosuccinate 9027-88-7, Short-chain acyl CoA dehydrogenase 9027-89-8, Galactocerebrosidase 9027-96-7, Citrate synthase 9028-04-0, Complex I (electron transport chain) 9028-06-2 9028-11-9, Complex II (mitochondrial electron transport) 9028-16-4, Xylitol dehydrogenase 9028-21-1, Sorbitol dehydrogenase 9028-31-3, Aldose reductase 9028-38-0, D-.beta.-Hydroxybutyrate 9028-35-7, HMG-CoA reductase 9028-41-5, .beta.-Ketoacyl reductase 9028-86-8, Aldehyde dehydrogenase 9028-93-7, IMP dehydrogenase 9028-95-9, Succinic dehydrogenase semialdehyde dehydrogenase 9029-12-3, Glutamate dehydrogenase • 9029-38-3, SUlfite oxidase 9029-49-6, Homogentisate 1,2-dioxygenase 9029-61-2, Kynurenine hydroxylase 9029-60-1, Lipoxygenase 9029-72-5, 4-Hydroxyphenylpyruvate dioxygenase 9029-73-6, Phenylalanine hydroxylase 9029-75-8, Guanidinoacetate methyltransferase 9029-83-8, Serine 9029-84-9, Glycine Formiminotransferase hydroxymethyltransferase 9029-87-2, Malonyl-CoA carboxyltransferase 9029-97-4, Acetyl CoA acyltransferase 9030-08-4, UDP-Glucuronosyltransferase 9030-21-1, Purine nucleoside phosphorylase 9030-42-6 9030-50-6, Ketohexokinase 9030-74-4, 9030-66-4, Glycerol kinase 9030-53-9, Galactokinase 9030-87-9, 9030-83-5, HMG-CoA lyase Dihydropyrimidinase 9031-02-1, .alpha.-Ketoglutarate 15-Hydroxyprostaglandin dehydrogenase 9031-11-2, .beta.-Galactosidase 9031-14-5, dehydrogenase Lecithin-cholesterol acyltransferase 9031-28-1, Thyroid peroxidase 9031-36-1, Steroid .DELTA.-isomerase 9031-37-2, Ceruloplasmin 9031-61-2, Thymidylate synthase 9031-54-3, Sphingomyelinase 9031-72-5, 9031-82-7, Glutamine phosphoribosylpyrophosphate Alcohol dehydrogenase amidotransferase 9031-86-1, Aspartoacylase 9031-98-5, Carboxypeptidase

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9032-22-8, NADPH oxidase
                                        9032-28-4, Dihydrolipoyl
9032-02-4
                     9032-29-5 9032-59-1, Fumarylacetoacetase
succinyltransferase
9032-76-2, Dehydroepiandrosterone sulfotransferase 9032-88-6, Fumarase
9032-89-7, UDP-galactose-4-epimerase 9034-39-3, Growth hormone releasing
         9034-40-6, LH-releasing hormone 9035-34-1, Cytochrome a
9035-39-6, Cytochrome b5 9035-51-2, Cytochrome P 450, biological studies
9035-54-5, Placental lactogen 9035-58-9, Blood-coagulation factor III
                                    9035-75-0, Chymotrypsinogen
9035-74-9, Glycogen phosphorylase
9035-81-8, Trypsin inhibitor 9036-20-8 9036-22-0, Tyrosine hydroxylase
9036-23-1, UMP kinase 9036-37-7, .delta.-Aminolevulinate dehydrase
9036-43-5, Steroid .DELTA.4-5.alpha.-reductase 9037-14-3,
.delta.-Aminolevulinate synthase 9037-21-2, Tryptophan hydroxylase 9037-42-7, DNA methyltransferase 9037-65-4, .alpha.-L-Fucosidase
RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)
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ΙT

(core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) 9037-67-6, GABA transaminase 9037-68-7, Phenylethanolamine methyltransferase 9039-06-9, Cytochrome P 450 reductase 9039-45-6, 9040-57-7, Ribonucleotide reductase 9041-46-7, Deoxycytidine kinase 11.beta.-Hydroxysteroid dehydrogenase 9041-92-3, .alpha.1-Antitrypsin 9042-64-2, DOPA decarboxylase 9044-50-2, Steroid 17-20 desmolase 9044-85-3, 3.beta.-Hydroxysteroid dehydrogenase 9044-86-4, Dehydratase 9046-27-9, .gamma.-Glutamyltransferase 9047-22-7, Cathepsin B 9047-64-7, Ribonucleoside diphosphate reductase 9048-63-9, Epoxide 9050-70-8, Proline dehydrogenase 9054-54-0, Transacylase hydrolase 9054-63-1, Microsomal aminopeptidase 9054-65-3, Branched chain aminotransferase 9054-75-5, Guanylate cyclase 9054-84-6, Xanthine dehydrogenase 9054-89-1, Superoxide dismutase 9055-02-1, Prekallikrein 9055-67-8, Poly(ADP-ribose) synthetase 9056-26-2, Peptidase B 9059-22-7, Heme oxygenase 9059-25-0, Lysyl hydroxylase 9060-09-7, 9061-61-4, Nerve growth factor 9067-97-4, Uteroglobins .DELTA.4-3-Oxosteroid 5.beta.-reductase 9068-41-1, Carnitine 9068-44-4, Procollagen peptidase 9068-57-9, palmitoyltransferase Acrosin 9068-75-1, Glucagon synthetase 9073-56-7, .alpha.-L-9074-11-7, 9074-10-6, Biliverdin reductase Iduronidase Dihydropteridine reductase 9074-91-3, Porphobilinogen deaminase 9075-24-5, Aspartylglucosaminidase 9075-65-4, Glycerophosphate dehydrogenase 9075-81-4 9076-84-0, Coproporphyrinogen oxidase 9077-03-6, 17-Ketosteroid reductase 9079-67-8, NADH dehydrogenase 9080-21-1, 7-Dehydrocholesterol reductase 9081-34-9, Steroid 5.alpha.-reductase 9082-57-9, Inosine triphosphatase 9082-72-8, Branched chain keto acid dehydrogenase 11002-13-4, Angiotensinogen (protein renin substrate) 11016-39-0, Properdin 11096-26-7, 12651-27-3, Transcobalamin 1 12651-28-4, Transcobalamin Erythropoietin 24305-27-9, Thyrotropin releasing hormone 37184-63-7, Inositol monophosphatase 37211-69-1, 2,3-Bisphosphoglycerate mutase 37213-56-2, 37221-79-7, Vasoactive intestinal polypeptide Complement factor D 37228-64-1, Acid .beta.-glucosidase 37233-48-0, Carbamoylphosphate 37255-32-6, Dihydrodiol dehydrogenase 37255-38-2, Glutaryl-CoA dehydrogenase 37255-40-6, Glycine dehydrogenase 37256-36-3, NADH dehydrogenase (ubiquinone) 37257-08-2, Aminomethyltransferase 37257-17-3, Malonyl-CoA transacylase 37257-19-5, Dihydroxyacetone phosphate acyltransferase 37270-64-7, Acyl-CoA thioesterase 37274-61-6, Isovaleryl-CoA dehydrogenase 37277-84-2, Cobalamin adenosyltransferase 37288-39-4, Sucrase 37288-40-7, .alpha.-Acetylglucosaminidase 37288-66-7, Aminopeptidase P 37289-19-3, GTP cyclohydrolase 37289-34-2 37289-41-1, Heparin sulfamidase 37290-90-7, Methionine synthase 37340-55-9, Uroporphyrinogen III synthase 39346-44-6, Inter-.alpha.-trypsin 39362-14-6, Prolactin-releasing hormone 39379-15-2, inhibitor Neurotensin 39419-81-3, Holocarboxylase synthetase 50812-31-2, Cyclic nucleotide phosphodiesterase 50812-37-8, Glutathione S-transferase 50936-59-9, Iduronate 2-sulfatase 51110-01-1, Somatostatin 53096-17-6, Bleomycin hydrolase 53167-91-2, NADPH-Flavin nucleotide dehydrogenase 53230-14-1, Preprothrombin 53986-32-6,

Protoporphyrinogen oxidase 54004-64-7, Rhodopsin kinase 55126-92-6, 55576-43-7, Dextrinase 56626-15-4, C3 Convertase 58319-92-9, ADP-ribosyltransferase 56645-49-9, Cathepsin G 59299-00-2, Acetylgalactosamine 6 sulfatase 59392-49-3, Gastric inhibitory 59536-74-2, Long-chain acyl CoA dehydrogenase 59828-56-7, 59977-51-4, Prostaglandin endoperoxide Endo-.beta.-glucuronidase convertase 60202-16-6, Protein C 60267-61-0, Ubiquitin 60320-99-2, 60616-82-2, Cathepsin L 60748-73-4, Acetylglucosamine 6 sulfatase Cathepsin H 60832-04-4, Thromboxane A2 synthetase 61116-24-3, 61811-29-8, Apurinic endonuclease Preproinsulin 61512-21-8, Thymosin 62213-29-0, Enoyl-CoA isomerase 62031-54-3, Fibroblast growth factor 62229-50-9, Epidermal growth factor 63340-72-7, Thymic humoral factor 64885-96-7, DNA primase 65802-85-9, Prostaglandin D synthase 65802-86-0, Prostacyclin synthase 65979-40-0, Bile acid CoA amino acid N-acyltransferase 66796-54-1, Proopiomelanocortin 67339-09-7, Thiopurine S-methyltransferase 67763-96-6, Insulin-like growth factor 1 67763-97-7, Insulin-like growth factor II 68651-94-5 70356-40-0, DNA 70712-46-8, Iodothyronine 5'-deiodinase 71822-25-8, glycosylase 5,10-Methylenetetrahydrofolate reductase 71965-46-3, Cathepsin S 73508-07-3, Molybdenum cofactor 73562-26-2 74506-38-0, Medium-chain acyl CoA dehydrogenase 74812-49-0, Ubiquitin protein ligase 74870-74-9, UMP synthetase 75432-63-2, Preproglucagon 75922-89-3, Pyrroline-5-carboxylate 78689-77-7, 6-Phosphofructo-2-kinase synthetase 77271-19-3 78783-52-5, .beta.1,3-Galactosyltransferase 78990-62-2, Calpain 79955-99-0, Matrix metalloproteinase 3 80043-53-4, Gastrin releasing 80295-33-6, Complement Clq 80295-34-7, Complement Clr 80295-35-8, Complement C1s 80295-38-1, C1 Inhibitor 80295-40-5, Complement C2 80295-41-6, Complement C3 80295-49-4, Complement C4A 80295-50-7, Complement C4B 80295-53-0, Complement C5 80295-56-3, 80295-57-4, Complement C7 80295-58-5, Complement C8 Complement C6 80295-59-6, Complement C9 80295-65-4, Complement factor H 80295-66-5, 80497-65-0, Antimullerian Hormone Complement factor I 81181-72-8, .qamma.-Glutamyl carboxylase 81604-65-1, Heparin cofactor ii 81627-83-0, Colony-stimulating factor 1 82707-54-8, Neutral 82785-45-3, Neuropeptide Y 82869-38-3, 2,4-Dienoyl CoA endopeptidase 83869-56-1, Colony-stimulating factor 2 85637-73-6, Atrial reductase 85638-40-0, Polylactosamine branching natriuretic peptide acetylglucosaminyltransferase 86551-03-3, Electron transfer flavoprotein dehydrogenase 86933-74-6, Neurokinin A 87683-70-3, Pterin-4.alpha.-carbinolamine dehydratase 88402-55-5, Prodynorphin 90597-47-0, Peptidylglycine 90119-07-6, Leukotriene A4 hydrolase .alpha.-amidating monooxygenase 90698-32-1, Leukotriene C4 synthase 92769-12-5, Proliferin 92941-56-5, Serotonin 91448-99-6, Cystatin C acetyltransferase 93443-35-7, Preproenkephalin 93792-73-5, 93928-65-5, Aminoadipic semialdehyde Colony-stimulating factor 3 94716-09-3, Cathepsin K 95567-84-3, Dihydrolipoamide synthase 97089-82-2, 6-Pyruvoyltetrahydropterin synthase transacylase 97501-92-3, Chymase 99085-47-9, Complement decay-accelerating factor 99194-04-4, Cystatin B 99676-46-7, Neuroendocrine convertase 1 102484-74-2, Alkylglycerone phosphate synthase 102577-23-1, Neurokinin B 103370-86-1, Parathormone-related peptide 104118-56-1, Leukotriene A4 105913-04-0 106283-10-7, Inositol 1,4,5-triphosphate 3-kinase 106956-32-5, Oncostatin M 106602-62-4, Islet amyloid polypeptide 110910-42-4, Cathepsin E 109319-16-6 109489-77-2, Tetranectin 111694-13-4, Inositol polyphosphate 1-phosphatase 114101-80-3, 115966-66-0, Pro-melanin-concentrating hormone 114949-22-3, Activin 117147-70-3, Amphiregulin 115966-67-1, Histatin 3 Histatin 1 117628-82-7, Follistatin 117698-12-1, Paraoxonase 119418-04-1, Galanin 120178-12-3, Telomerase 121797-22-6, Histatin 2 122097-00-1, Cyclin-dependent kinase 8 122191-40-6, Caspase 1 122879-69-0, 123626-67-5, Endothelin 1 124861-55-8 125692-40-2, Endothelin 2 125978-95-2, Nitric oxide synthase 127407-08-3, Receptor Endothelin 3 127464-60-2, Vascular endothelial growth factor tyrosine kinase 128028-50-2, Proteinase-3 128449-51-4, .alpha.1,3-Galactosyltransferase 130939-66-1, Neurotrophin 3 137061-48-4, Pituitary adenylate

138238-81-0, Endothelin converting enzyme cyclase-activating peptide 138359-29-2, c-Kit protein tyrosine kinase 138674-26-7, SYK tyrosine 138757-15-0, .alpha.2-Antiplasmin 139466-48-1, Protein C 139639-23-9, Tissue plasminogen activator 139639-24-0, inhibitor Urokinase plasminogen activator 140158-49-2, Hippocampal cholinergic 140208-22-6, CDC25 phosphatase neurostimulating peptide Plasminogen activator inhibitor 1 140208-24-8, Tissue inhibitor of 140610-48-6, Matrix metalloproteinase 10 metalloproteinase 1 141176-92-3, .alpha.1-Antichymotrypsin 141256-52-2, Matrix metalloproteinase 7 141349-86-2, Cyclin-dependent kinase 2 RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

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(core group of disease-related genes; gene probes used for genetic profiling in healthcare screening and planning) 141436-78-4, Protein kinase C 141467-21-2, Calmodulin-dependent protein 141588-27-4, Protein kinase G 141760-45-4, Furin Protein kinase A 142243-02-5, Mitogen-activated protein kinase 142243-03-6, Plasminogen activator inhibitor 2 142805-56-9, Topoisomerase II 142805-58-1, MEK kinase 143180-75-0 143375-65-9, CDC2 kinase 144697-17-6, c-Src tyrosine kinase 144940-98-7, Guanylin 145267-01-2, Matrix metalloproteinase 11 145809-21-8, Tissue inhibitor 146480-35-5, Matrix metalloproteinase 2 of metalloproteinase 3 146480-36-6, Matrix metalloproteinase 9 146702-84-3, Mitogen-activated 147014-96-8, Cyclin-dependent kinase 5 protein kinase kinase kinase 147014-97-9, Cyclin-dependent kinase 4 148047-29-4, TEK receptor 148640-14-6, Protein 148125-60-4, Protease nexin 2 tyrosine kinase 149147-12-6 149885-72-3, Heme-regulated inhibitor of kinase B 150605-49-5, Palmitoyl-protein thioesterase 151662-20-3, translation 151769-16-3, Metalloproteinase ADAM17 151821-61-3, Ubiquitin DM kinase 152478-56-3, Janus kinase 1 152478-57-4, 151821-62-4, Ubiquitin C Janus kinase 2 153190-71-7, Cyclin-dependent kinase 3 154531-34-7, 154907-66-1, Cyclin-dependent Heparin-binding EGF-like growth factor 157482-36-5, Janus kinase 3 157857-10-8, Prostasin kinase 6 161052-08-0, Gene tie protein kinase 161384-17-4, Matrix 169494-85-3, Leptin metalloproteinase 14 169592-56-7, Apopain 169592-62-5, Cyclin-dependent kinase 10 170347-52-1, Gene nsk2 protein 170780-57-1, LIM kinase 175449-82-8, Matrix metalloproteinase kinase 179241-73-7, Activin-receptor-like kinase 1 179241-78-2, Caspase 8 182372-11-8, Metalloproteinase ADAM9 180189-96-2, Caspase 9 182372-14-1, Caspase 2 182372-15-2, Caspase 6 182762-08-9, Caspase 4 182938-13-2, Cyclin-dependent kinase 9 182970-56-5, Matrix metalloproteinase 16 185402-46-4, Phytanoyl-CoA hydroxylase 185857-51-6, Neurturin 186207-03-4, Tissue inhibitor of metalloproteinase 4 186270-49-5, Angiopoietin 1 188364-80-9, Matrix metalloproteinase 19 189088-85-5, Caspase 10 189088-86-6, P21-Activated kinase 3 189258-14-8, Caspase 7 192230-91-4, Mitogen-activated protein kinase kinase 4 192465-11-5, Caspase 5 193099-09-1, Metalloproteinase ADAM10 193099-10-4, Metalloproteinase 193099-11-5, Metalloproteinase ADAM11 193830-08-9, ADAM15 Growth/differentiation factor 5 194368-66-6, Angiopoietin 2 194554-71-7, Blood-coagulation factors, LACI 194739-73-6, MAPK kinase 6 202420-40-4, Gene STK11 protein kinase 203810-08-6, Matrix metalloproteinase 17 205944-50-9, Osteoprotegerin 207004-87-3, Methionine synthase reductase 208349-50-2, Matrix metalloproteinase 15 214899-28-2 216864-07-2, .alpha.-Synuclein 216864-08-3, 227184-71-6, Matrix metalloproteinase MT-MMP .beta.-Synuclein 227604-60-6, Matrix metalloproteinase MT5-MMP 245359-74-4, Orexin 248259-60-1, Ephrin-A8 receptor kinase 252337-44-3, Metalloproteinase 252340-56-0, Metalloproteinase ADAM13 252341-94-9, Metalloproteinase ADAM14 252344-02-8, Metalloproteinase ADAM16 252348-35-9, Metalloproteinase ADAM18 252348-54-2, Metalloproteinase 252348-89-3, Metalloproteinase ADAM2 252349-85-2, Metalloproteinase ADAM3A 252350-00-8, Metalloproteinase ADAM3B 252350-77-9, Metalloproteinase 252350-19-9, Metalloproteinase ADAM4 252350-84-8, Metalloproteinase ADAM6 252350-91-7,

Metalloproteinase ADAM7 252351-00-1, Proteinase, metallo-, ADAM8

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252351-68-1, Leukotriene C4 synthase
                                            252351-86-3, Matrix
                          252354-25-9, Gene STK2 protein kinase
    metalloproteinase 6
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (core group of disease-related genes; gene probes used for genetic
     profiling in healthcare screening and planning)
     9001-62-1, Lipase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (hepatic, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
     80449-02-1, Protein tyrosine kinase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lymphocyte-specific, core group of disease-related genes; gene probes
       used for genetic profiling in healthcare screening and
       planning)
     9001-77-8, Acid phosphatase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (lysosomal 2, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
     64-85-7, Deoxycorticosterone
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (receptor, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
     9025-75-6, Protein phosphatase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (regulatory subunit PPP1R3 and A, core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
     9001-78-9
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (tissue nonspecific TNSAP, core group of disease-related genes; gene
       probes used for genetic profiling in healthcare screening and
       planning)
    79747-53-8, Protein tyrosine phosphatase
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (type 12, core group of disease-related genes; gene probes used for
       genetic profiling in healthcare screening and planning)
     158736-49-3, .alpha.-Secretase
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta. and .gamma., core group of disease-related genes;
       gene probes used for genetic profiling in healthcare
       screening and planning)
     57285-09-3, Inhibin
     RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.alpha. and .beta.A and .beta.B and .beta.C subunits, core group of
       disease-related genes; gene probes used for genetic profiling
        in healthcare screening and planning)
     9002-67-9, Luteinizing hormone
    RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL
     (Biological study); USES (Uses)
        (.beta.-subunit, core group of disease-related genes; gene probes used
        for genetic profiling in healthcare screening and planning)
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Probing the Binding Behavior and Conformational States of Globular

Proteins in Reversed-Phase High-Performance Liquid Chromatography Purcell, Anthony W.; Aguilar, Marie-Isabel; Hearn, Milton T. W. AU Centre for Bioprocess Technology Department of Biochemistry and Molecular CS Biology, Monash University, Clayton, 3168, Australia Anal. Chem. (1999), 71(13), 2440-2451 SO CODEN: ANCHAM; ISSN: 0003-2700 PB American Chemical Society DT Journal LΑ English CC 9-3 (Biochemical Methods) Section cross-reference(s): 6 ΑB Reversed-phase high-performance liq. chromatog. (RP-HPLC) is a widely used technique for the sepn. of proteins under low pH aquo-org. solvent gradient elution conditions, typically carried out at ambient temps. These conditions can however induce conformational effects with proteins as evident from changes in their biol. or immunol. activities. By monitoring the influence of temp. on the retention and band-broadening characteristics of proteins, the role of conformational processes in these lipophilic environments can be examd. These processes can then be interpreted in terms of a two-state model involving a native (N) and a fully unfolded species (U) or more complex folding/unfolding models. In the present study, the gradient elution RP-HPLC behavior of sperm whale myoglobin (SWMYO) and hen egg white lysozyme (HEWL) has been investigated at temps. between 5 and 85.degree. with n-octadecyl (C18)- and Bu (C4)-silica reversed-phase sorbents. The interaction of these proteins with these reversed-phase sorbents has also been examd. in terms of the contributions that the heme prosthetic group of SWMYO and the disulfide bonds in HEWL make to the stabilization of the native conformation of these proteins in these hydrophobic environments. The obsd. interconversions of multiple peak zones of SWMYO and HEWL in the presence of C18 and C4 ligands have been subsequently analyzed in terms of the unfolding processes that these proteins can undergo at low pH and at elevated temps. The ability of hydrocarbonaceous ligands to trap ensembles of partially unfolded conformational intermediates of proteins in these perturbing environments has been examd. Pseudo-first-order rate consts. have been derived for these processes from anal. of the dependencies on time of the concn. of the different protein species at specified temps. The relationship of these processes to the conformational transitions that these proteins can undergo via molten globule-like intermediates (i.e., compact denatured states with a significant amt. of residual secondary structure) in soln. has also been This study thus further documents an exptl. strategy to assess the folding/unfolding behavior of globular proteins in the presence of hydrophobic surfaces and aquo-org. solvents, whereby the system parameters can potentially affect the preservation of native conformations, and thus the function, of the protein under these conditions. globular protein conformation binding HPLC STIT Proteins, specific or class RL: PRP (Properties) (globular; probing binding behavior and conformational states of qlobular proteins in reversed-phase high-performance liq. chromatog.) IT Adsorption Conformational transition Protein folding Reversed phase HPLC Reversed phase HPLC stationary phases Temperature pН (probing binding behavior and conformational states of globular proteins in reversed-phase high-performance liq. chromatog.) IT Myoglobins RL: PRP (Properties) (probing binding behavior and conformational states of globular proteins in reversed-phase high-performance liq. chromatog.) Conformation TT Secondary structure

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(protein; probing binding behavior and conformational states of
        globular proteins in reversed-phase high-performance liq. chromatog.)
IT
     9001-63-2, Lysozyme
     RL: PRP (Properties)
        (probing binding behavior and conformational states of globular
        proteins in reversed-phase high-performance liq. chromatog.)
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- AN 1998:656835 HCAPLUS
- DN 130:35171
- TI **Trafficking** of androgen receptor mutants fused to green fluorescent **protein**: a new investigation of partial androgen insensitivity syndrome
- AU Georget, Virginie; Terouanne, Beatrice; Lumbroso, Serge; Nicolas, Jean-Claude; Sultan, Charles
- CS Institut National Sante Recherche Medicale, INSERM U439, Pathologie Moleculaire Recepteurs Nucleaires, Montpellier, 34090, Fr.
- SO J. Clin. Endocrinol. Metab. (1998), 83(10), 3597-3603 CODEN: JCEMAZ; ISSN: 0021-972X
- PB Endocrine Society
- DT Journal
- LA English
- CC 9-2 (Biochemical Methods)
  Section cross-reference(s): 2, 14
- The naturally occurring mutations of the androgen receptor (AR), detected AB in patients with androgen insensitivity syndrome (AIS), are currently analyzed by in vitro assays. Unfortunately, these assays do not always permit the demonstration of a direct relationship between the in vitro activity of the receptor and the severity of the phenotype (in particular, for mutations detected in patients with partial AIS). We recently studied the trafficking of wild-type AR, fused to the green fluorescent protein (GFP) in living cells. In the present study, we applied this method for the anal. of AR mutants to find out whether it could be a complementary method of investigation of AIS. After construction of the GFP-AR mutant fusion proteins, the androgen-binding characteristics, nuclear transfer capacities, and transcriptional activities were evaluated. The nuclear transfer was quantified in the presence of various concns. of dihydrotestosterone (DHT). We studied two mutants assocd. with partial AIS: G743V and R840C. The androgen-binding characteristics of both mutants were affected, in comparison with normal AR. Although the affinities were similar, the dissocn. rate of GFP-AR-G743V was twice that of GFP-AR-R840C. In transcriptional assay, both mutants were active only at high concns. of androgen. The nuclear trafficking of the mutants was evaluated by two parameters: 1) the rate of nuclear transfer; and 2) the maximal amt. of receptors imported into the nucleus. At 10-6 mol/L DHT, the GFP-AR mutants entered into the nucleus in a fashion similar to that of GFP-AR-wt. At 10-7 mol/L DHT, the rate and maximal degree of nuclear import were both reduced, even more, for GFP-AR-G743V. The difference between mutants was more pronounced at 10-9 mol/L DHT, because GFP-AR-G743V entered into the nucleus with even slower kinetics. Though the androgen-binding affinity and transcriptional activity assays did not reveal major differences between mutants, the dissocn. rate and the trafficking capacity measurements permitted the activity of the mutants to be differentiated. We obsd. that the nuclear transfer capacities of these mutants are in correlation with the severity of the phenotype. The GFP-AR model provides an opportunity both to observe the dynamics of the hormone/receptor complex in living cells and to study the impact of the ligand-binding domain mutation, as opposed to certain in vitro techniques. Because the nuclear import capacity correlates well with the degree of androgen insensitivity, the

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GFP-AR is a useful complementary tool to understanding the
     phenotype/genotype relationship of AR function in patients with AIS.
ST
     androgen receptor mutant fusion fluorescent protein
     trafficking insensitivity syndrome
IT
     Androgen insensitivity
     Cell nucleus
     Intracellular transport
     Mutation
     Tissue culture (animal)
     Transcription (genetic)
        (androgen receptor mutants fused to green fluorescent protein
      trafficking and investigation of partial androgen insensitivity
        syndrome)
TΤ
     Androgen receptors
     RL: ADV (Adverse effect, including toxicity); BOC (Biological occurrence);
     BPR (Biological process); PRP (Properties); BIOL (Biological study); OCCU
     (Occurrence); PROC (Process)
        (androgen receptor mutants fused to green fluorescent protein
      trafficking and investigation of partial androgen insensitivity
        syndrome)
ΙT
     Green fluorescent protein
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (androgen receptor mutants fused to green fluorescent protein
      trafficking and investigation of partial androgen insensitivity
        syndrome)
IT
     521-18-6, Dihydrotestosterone
     RL: BAC (Biological activity or effector, except adverse); BIOL
     (Biological study)
        (androgen receptor mutants fused to green fluorescent protein
      trafficking and investigation of partial androgen insensitivity
        syndrome)
RE.CNT
        22
RE
(1) Beitel, L; J Clin Invest 1994, V94, P546 HCAPLUS
(2) Bevan, C; Hum Mol Genet 1996, V5, P265 HCAPLUS
(3) Bruggenwirth, H; Endocrinology 1998, V139; P103 HCAPLUS
(4) Evans, R; Science 1988, V240, P889 HCAPLUS
(5) Georget, V; Mol Cell Endocrinol 1997, V129, P17 HCAPLUS
(6) Gottlieb, B; Nucleic Acids Res 1998, V26, P234 HCAPLUS
(7) Gouilleux, F; Nucleic Acids Res 1991, V19, P1563 HCAPLUS
(8) Jenster, G; Biochem J 1993, V293, P761 HCAPLUS
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(10) Lobaccaro, J; J Steroid Biochem Mol Biol 1993, V44, P211 HCAPLUS
(11) Lobaccaro, J; Mol Cell Endocrinol 1996, V116, P137 MEDLINE
(12) Mangelsdorf, D; Cell 1995, V83, P835 HCAPLUS
(13) Marcelli, M; J Clin Invest 1994, V94, P1642 HCAPLUS
(14) McPhaul, M; J Clin Invest 1992, V90, P2097 HCAPLUS
(15) Nakao, R; J Clin Endocrinol Metab 1993, V77, P103 MEDLINE
(16) Ogawa, H; Proc Natl Acad Sci USA 1995, V92, P11899 HCAPLUS
(17) Pines, J; Trends Genet 1995, V11, P326 HCAPLUS
(18) Poujol, N; Horm Res 1997, V48S, P113
(19) Poujol, N; Mol Cell Endocrinol 1997, V130, P43 HCAPLUS
(20) Quigley, C; Endocr Rev 1995, V16, P271 HCAPLUS
(21) Simental, J; J Biol Chem 1991, V266, P510 HCAPLUS
(22) van Laar, J; Mol Cell Endocrinol 1989, V67, P29 HCAPLUS
L153 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2001 ACS
AN
     1997:112088 HCAPLUS
DN
     126:235421
     Preparation and characterization of Sinopak-s-DEAE weak
ΤI
     anion-exchange packing for high performance liquid chromatography
ΑU
     He, Xiujuan; Wu, Xiaojun; Qiao, Xia; Liu, Guoquan
CS
     Inst. Chem., Chinese Acad. Sci., Beijing, 100080, Peop. Rep. China
SO
     Sepu (1997), 15(1), 15-17
     CODEN: SEPUER; ISSN: 1000-8713
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PB

Sepu Jishu Yanjiu Kaifa Zhongxin

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zhou - 09 / 372380
DT
     Journal
LA
     Chinese
CC
     9-3 (Biochemical Methods)
     Section cross-reference(s): 16, 66
     High-performance ion-exchange chromatog. (HPIEC) is extensively used in
AB
     the sepn. of peptides and proteins, esp. in the biotechnol. process.
     principle of sepn. of proteins is based on the changes of pH and salt
     concn. in the mobile phase for the chromatog. model. A new synthetic
     method, which uses a catalyst for bonding the diethylaminoethyl group onto
     homemade macroporous silica spheres (Sinopak-s; sphere size 5 .mu.m and
     pore diam. 100 nm), was developed in our lab. for application to the
     scale-up sepn. of biotechnol. target products in China.
     Sinopak-s-DEAE weak anion-ion exchange matrix for HPLC was prepd. and
     characterized with various proteins. The pH value and reaction
     time are discussed for the reaction efficiency of ligand to the
     silica sphere. The coverage of the DEAE ligand on the silica
     surface was 1.6-2.1 .mu.mol/m2 for 6 batches of packings. The effects of
     pH value and salt concn. in the mobile phase upon the retention
     of proteins on the DEAE column are also discussed. A
     bioactivity recovery up to 98% for trypsin was achieved after purifn. with
     the DEAE column under the chosen chromatog. conditions. The capacity of
     the matrix for BSA was 80 mg/g. The column was used successfully to sep.
     a mixt. of several std. proteins under linear gradient elution conditions
     from 0 to 0.4 mol/L of NaCl in a 50 mmol/L Tris-HCl buffer (pH 7.0) at 1.0
     mL/min flow rate and detection at 280 nm.
     high performance anion exchange chromatog protein; DEAE Sinopak stationary
ST
     phase protein sepn
ΙT
     Proteins (general), preparation
     RL: PUR (Purification or recovery); PREP (Preparation)
        (Sinopak-s-DEAE weak anion-exchange stationary phase for HPLC)
IT
     Anion-exchange HPLC
        (stationary phases; Sinopak-s-DEAE weak anion-exchange stationary phase
        for HPLC)
     188448-85-3P, Sinopak S-DEAE
ΙT
     RL: NUU (Nonbiological use, unclassified); SPN (Synthetic preparation);
     PREP (Preparation); USES (Uses)
        (Sinopak-s-DEAE weak anion-exchange stationary phase for HPLC)
L153 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2001 ACS
AN
     1996:609940 HCAPLUS
DN
     125:269767
ΤI
     Bifunctional Fusion Proteins of Calmodulin and Protein A as Affinity
     Ligands in Protein Purification and in the Study of
     Protein-Protein Interactions
ΑU
     Hentz, Nathaniel G.; Daunert, Sylvia
     Department of Chemistry, University of Kentucky, Lexington, KY,
CS
     40506-0055, USA
     Anal. Chem. (1996), 68(22), 3939-3944
SO
     CODEN: ANCHAM; ISSN: 0003-2700
DT
     Journal
LA
     English
CC
     9-16 (Biochemical Methods)
     An affinity chromatog, system is described that incorporates a genetically
AB
     designed bifunctional affinity ligand. The utility of the
```

system in protein purifn. and in the study of protein-protein interactions is demonstrated by using the interaction between protein A and the heat shock protein DnaK as a model system. The bifunctional affinity ligand was developed by genetically fusing calmodulin (CaM) to protein A (ProtA). The dual functionality of protein A-calmodulin (ProtA-CaM) stems from the mol. recognition properties of the two components of the fusion protein. In particular, CaM serves as the anchoring component by virtue of its binding properties toward phenothiazine. Thus, the ProtA-CaM can be immobilized on a solid support contg. phenothiazine from the C-terminal domain of the fusion protein. Protein A is at the N-terminal domain of the fusion protein and serves as the affinity site for DnaK. While DnaK binds specifically to

the protein A domain of the bifunctional ligand, it is released upon addn. of ATP and under very mild conditions (pH 7.0). In addn. to obtaining highly purified DnaK, this system is very rugged in terms of its performance. The proteinaceous bifunctional affinity ligand can be easily removed by addn. of EGTA, and fresh ProtA-CaM can be easily reloaded onto the column. This allows for a facile regeneration of the affinity column because the phenothiazine-silica support matrix is stable for long periods of time under a variety of conditions. This study also demonstrates that calmodulin fusions can provide a new approach to study protein-protein interactions. Indeed, the ProtA-CaM fusion protein identified DnaK as a cellular component that interacts with protein A from among the thousands of proteins present in Escherichia coli.

ST protein A calmodulin fusion affinity chromatog; heat

shock protein DnaK

IT Proteins, biological studies

RL: BPR (Biological process); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); PROC (Process)

(bifunctional fusion proteins of calmodulin and protein A as affinity ligands in protein purifn. and in the study of protein-protein interactions)

IT Calmodulins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(bifunctional fusion proteins of calmodulin and protein A as affinity ligands in protein purifn. and in the study of protein-protein interactions)

IT Proteins, specific or class

RL: BPR (Biological process); BUU (Biological use, unclassified); BIOL (Biological study); PROC (Process); USES (Uses)

(A, bifunctional fusion proteins of calmodulin and protein A as affinity **ligands** in protein purifn. and in the study of protein-protein interactions)

IT Proteins, specific or class

RL: PUR (Purification or recovery); PREP (Preparation) (heat-shock, DnaK; bifunctional fusion proteins of calmodulin and protein A as affinity ligands in protein purifn. and in the study of protein-protein interactions)

IT 56-65-5, 5'-ATP, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (bifunctional fusion proteins of calmodulin and protein A as affinity ligands in protein purifn. and in the study of protein-protein interactions)

L153 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2001 ACS

AN 1996:555064 HCAPLUS

DN 125:269747

TI Use of a peptide library to **characterize** differential peptide binding specificities of bacterial and mammalian **Hsp70** 

AU Williams, K. P.; Evans, D. M.; Rosenberg, S.; Jindal, S.

CS PerSeptive Biosystems Inc., Framingham, MA, USA

SO Tech. Protein Chem. VII, [Symp. Protein Soc.], 9th (1996), Meeting Date 1995, 57-64. Editor(s): Marshak, Daniel R. Publisher: Academic, San Diego, Calif.
CODEN: 63GTAE

DT Conference

LA English

CC 9-16 (Biochemical Methods)

AB A peptide library contg. a random mixt. of peptides of different lengths and sequences and having an affinity for mammalian hsp70 or its bacterial counterpart, Dna K, was screened. The results showed that although mammalian and bacterial hsp70 are highly conserved proteins, they differ in their specificity for binding peptides. The screening approach should be useful for obtaining ligands that differentiate between closely related targets.

ST peptide binding specificity bacterial mammalian hsp70

```
Proteins, specific or class, properties
IT
     RL: PRP (Properties)
        (characterization of differential peptide binding
        specificities of bacterial and mammalian Hsp70)
     Proteins, specific or class
IT
     RL: PRP (Properties)
        (hsp 70, characterization of differential
        peptide binding specificities of bacterial and mammalian Hsp70
L153 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     1994:3172 HCAPLUS
AN
DN
     120:3172
     Proteins forming complexes with chaperones and ligands thereof,
TI
     fragments thereof, preparation thereof and biological uses thereof
     Lebeau, Marie-Claire; Massol, Nelly; Renoir, Michel; Radanyi, Christine;
TN
     Mornon, Jean Paul; Callebaut, Isabelle; Baulieu, Etienne Emile; Chambraud,
     Beatrice
PA
     Institut National de la Sante et de la Recherche Medicale (INSERM), Fr.
SO
     PCT Int. Appl., 43 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
IC
     ICM C12N015-12
     ICS C12N015-63; C12N001-21; C07K013-00; C12P021-08; C12Q001-68
CC
     6-3 (General Biochemistry)
     Section cross-reference(s): 1, 3, 9
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
     ------
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                                          ------
                                          WO 1993-FR219
                                                          19930304
                      A2
                           19930916
PΙ
     WO 9318146
                     A3 19931111
     WO 9318146
        W: JP, US
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                      A1
     FR 2688227
                            19930910
                                        FR 1992-2612
                                                           19920304
PRAI FR 1992-2612
                     19920304
     The cDNA for 59 kDa rabbit protein HBI, which forms a complex with
     hsp90 and is found in steroid receptor complexes, is cloned and
     sequenced. This cDNA may be used to identify DNA encoding immunophilins,
     or proteins which contain domains homologous to FK506-binding domains,
     calmodulin-binding domains, or domains with rotamase activity. Antibodies
     to the HBI protein may be used to detect these proteins also. The cDNA
     for the 458 amino acid protein HBI of rabbit liver was cloned. The
     protein contains 3 domains with sequence homol. to human FKBP. The HBI
     cDNA was used in Southern and Northern analyses of various organisms and
     protein HBI rabbit cDNA sequence; hsp90 complex HBI protein
ST
     steroid receptor; FK506 binding domain HBI protein
ΙT
     Protein sequences
        (of 59 kDa protein HBI of rabbit)
IT
     Calmodulins
     RL: BIOL (Biological study)
        (protein binding, rabbit protein HBI contg. domain homologous to)
TΤ
     Antibodies
     RL: BIOL (Biological study)
        (to rabbit protein HBI, detection of immunophilins in relation to)
     Deoxyribonucleic acid sequences
IT
        (complementary, for 59 kDa protein HBI of rabbit)
IT
     Phosphoproteins
     RL: BIOL (Biological study)
        (hsp 90, rabbit protein HBI binding to,
      characterization of and cloning of cDNA for)
     Antibodies
IT
     RL: BIOL (Biological study)
        (monoclonal, to rabbit protein HBI, detection of immunophilins in
```

relation to)

```
147015-34-7, Protein HBI (rabbit 59 kDa)
IT
     RL: PRP (Properties)
        (amino acid sequence of, FK506-binding domains in)
     142693-60-5, DNA (rabbit 59 kDa protein HBI cDNA and 3' flank)
IT
     151616-93-2
     RL: PRP (Properties)
        (nucleotide sequence of)
IT
     104987-11-3, FK-506
     RL: BIOL (Biological study)
        (protein binding domain for, rabbit protein HBI contg. homologous)
     56-65-5, ATP, biological studies 86-01-1, GTP
IT
     RL: BIOL (Biological study)
        (protein binding, rabbit protein HBI contg. domain homologous to)
IT
     95076-93-0, Rotamase
     RL: BIOL (Biological study)
        (protein with activity of, rabbit protein HBI contg. domain homologous
        to)
L153 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2001 ACS
     1992:37230 HCAPLUS
AN
DN
     116:37230
     Hydrophobic interaction chromatography for the purification of a
ΤI
     mycobacterial heat shock protein of relative
     molecular mass 60 000
     Schoel, Bernd; Kaufmann, Stefan H. E.
AU
     Dep. Immunol., Univ. Ulm, Ulm, W-7900, Germany
CS
     J. Chromatogr. (1991), 587(1), 19-23
SO
     CODEN: JOCRAM; ISSN: 0021-9673
DT
     Journal
LA
     English
     9-3 (Biochemical Methods)
CC
     Section cross-reference(s): 10
     Chromatog, with ligands of medium hydrophobicity, such as
AB
     phenyl-Sepharose, bound too strongly to be used for the purifn. of the
     title recombinant heat shock protein.
     Butyl-Sepharose, with weak hydrophobicity, allowed binding and elution
     with decreasing concns. of (NH4)2SO4, but only alkyl-Superose allowed
     sepn. of 2 similar proteins from the Escherichia coli clone expressing the
     recombinant heat shock protein (relative
     mol. mass 60,000) of Mycobacterium bovis BCG. The binding
     parameters of recombinant human heat shock
     proteins of relative mol. mass 60,000 and 70
     ,000 indicate the phenyl-Sepharose also binds too strongly for the sepn.
     of these 2 heat shock proteins.
     Mycobacterium heat shock protein purifn;
ST
     hydrophobic chromatog heat shock protein
ΙT
     Mycobacterium BCG
        (60,000-mol.-wt. heat shock
      protein of, purifn. of, by hydrophobic interaction chromatog.)
     Proteins, specific or class
     RL: PUR (Purification or recovery); PREP (Preparation)
        (hsp 60, purifn. of, of human and mycobacteria by
        hydrophobic interaction chromatog.)
     Proteins, specific or class
IT
     RL: ANST (Analytical study)
        (hsp 70, purifn. of human, by hydrophobic
        interaction chromatog.)
     Chromatography, column and liquid
ΙT
        (hydrophobic, of heat-shock proteins, of
        human and mycobacteria)
     9012-36-6D, Agarose, crosslinked, alkyl ethers
                                                       67674-78-6
                                                                    72980-05-3
IT
     RL: ANST (Analytical study)
        (stationary phase, in purifn. of heat-shock
      proteins by hydrophobic interaction chromatog.)
```

## => d his

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(FILE 'HOME' ENTERED AT 11:28:32 ON 16 FEB 2001)
                SET COST OFF
     FILE 'HCAPLUS' ENTERED AT 11:29:19 ON 16 FEB 2001
                E CHIEZ R/AU
                E HEDLEY M/AU
             28 S E3, E6, E8
L1
                E HSU C/AU
            713 S E3-E34
L2
                E HSU CHARLES/AU
L3
             65 S E3-E15
                E URBAN R/AU
             28 S E3, E7
T.4
             51 S E29, E34, E35
L5
                E CHICZ R/AU
1.6
             48 S E4-E6
L7
            891 S L1-L6
L8
             1 S L7 AND TAG?
             78 S L7 AND (PROTEIN# OR PEPTIDE# OR POLYPEPTIDE#)/CW
L9
                E PROTEIN/CT
                E PROTEINS/CT
                E E3+ALL/CT
             37 S L7 AND E1+NT
L10
L11
              0 S L7 AND E2
             17 S L7 AND E3
L12
                E PROTEINS/CT
                E E4+ALL/CT
L13
              3 S L7 AND E1
L14
             78 S L9-L13
                E LIGAND/CT
                E E35+ALL/CT
L15
              2 S E1+NT/CT AND L7
                E LIGAND/CW
L16
              2 S E3, E4 AND L7
                E RECEPTOR/CW
             20 S E3, E4 AND L7
L17
             43 S L7 AND (MHC OR MAJOR(S) HISTOCOMPAT?(S) COMPLEX?)
L18
             20 S L7 AND HISTOCOMPAT? (S) COMPLEX?
L19
L20
            78 S L9, L10, L12, L13, L14
            105 S L17-L19, L20
L21
             2 S L15, L16 AND L21
L22
             21 S LIGAND AND L7
L23
L24
             15 S L23 AND L21
L25
             15 S L22, L24
           4090 S CHAPERON#
L26
           3533 S CHAPERONIN#
L27
L28
            461 S CALNEXIN#
L29
           3385 S MANNOSIDASE
            606 S N GLYCANASE
L30
           958 S BIP
L31
           6896 S GRP94 OR GRP96 OR HSP100 OR HSP60 OR HSP65 OR HSP70 OR HSP90
L32
L33
             90 S "E2" UBIOUITIN# (S) CARRIER(S) PROTEIN
            157 S "E3" UBIQUITIN# (S) LIGASE
L34
L35
             17 S UNFOLDASE
           2920 S TRAFFIC? (S) PROTEIN
L36
L37
           4936 S RETENTION(S) PROTEIN
     FILE 'REGISTRY' ENTERED AT 11:55:15 ON 16 FEB 2001
              4 S 37211-66-8 OR 83534-39-8 OR 74812-49-0 OR 140879-24-9
L38
                E UNFOLDASE/CN
     FILE 'HCAPLUS' ENTERED AT 11:56:17 ON 16 FEB 2001
L39
           2862 S L38
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L40
           3556 S PROTEASOME OR (MULTICATALYTIC OR MULTI CATALYTIC) (S) (PROTEASE
L41
           1263 S GLYCOAMIDASE OR GLYCOPEPTIDASE OR N GLYCOSIDASE OR PGNASE F
L42
            247 S UBIQUITIN# (S) "E3" (S) LIGASE
L43
            497 S UBIQUITIN# (S) PROTEIN (S) LIGASE
             58 S UBIQUITIN# (S) PROTEIN (S) (SYNTHETASE OR SYNTHASE)
L44
L45
          28954 S L26-L37, L39-L44
              7 S L45 AND L7
L46
L47
              6 S L46 AND L21-L25
L48
              5 S L47 AND L9
L49
              2 S L48 AND L15, L16, L23
L50
              3 S L22, L49
L51
             12 S L25 NOT L50
L52
              9 S L51 NOT (RETINOID OR INFARCTION)/TI
L53
             12 S L50, L52
     FILE 'HCAPLUS' ENTERED AT 12:05:39 ON 16 FEB 2001
L54
            658 S CALRETICULIN#
L55
           4406 S HSP()(100 OR 60 OR 65 OR 70 OR 90 OR 25)
                E HEAT SHOCK/CT
                E HEAT-SHOCK/CT
L56
           4091 S E26+NT/CT
                E E26+ALL/CT
           5451 S
                   E4-E7
L57
L58
           4416 S (HEAT SHOCK PROTEIN#) (S) (100 OR 60 OR 65 OR 70 OR 90 OR 25)
           3815 S L56, L57 (L) (100 OR 60 OR 65 OR 70 OR 90 OR 25)
L59
            751 S GLUCOSE REGULAT? PROTEIN
L60
             86 S (L60 OR GRP) (S) (94 OR 96)
L61
          31091 S L45, L54, L55, L58, L59, L61
L62
L63
              8 S L7 AND L62
L64
              7 S L63 AND L21
              2 S L64 AND LIGAND
L65
              5 S L64 NOT L65
L66.
             20 S L7 AND P/DT
L67
              3 S L67 AND L53, L63
L68
L69
             17 S L67 NOT L68
L70
              7 S L18, L19 AND L68, L69
L71
              7 S L68, L70
L72
             10 S L53 NOT L71
              7 S L18, L19 AND L72
L73
L74
              4 S L73 AND HLA
             11 S L71, L74
L75
L76
              3 S L73 NOT L75
L77
             14 S L75, L76
     FILE 'BIOSIS' ENTERED AT 12:26:08 ON 16 FEB 2001
                E CHICZ R/ AU
L78
             31 S E3, E5, E6
                E HEDLEY M/AU
L79
             26 S E3, E6, E9
                E HSU C/AU
           1081 S E3-E35
L80
              1 S E55
L81
                E URBAN R/AU
L82
             62 S E3, E8
                E URBAN ROBERT/AU
             22 S E3, E5
L83
L84
           1202 S L78-L83
            505 S L84 AND (00520/CC OR CONFERENCE/DT)
L85
            532 S L84 AND (CONGRESS? OR CONFERENCE OR POSTER OR SYMPOS? OR MEET
L86
L87
             27 S L86 NOT L85
L88
             20 S L87 NOT ARTICLE/DT
L89
             13 S L88 NOT AB/FA
              9 S L89 AND (SYMPOS? OR CONGRESS OR CONFERENCE OR MEETING OR ASSE
L90
L91
            532 S L85, L86, L90
L92
              9 S L91 AND LIGAND
             69 S L91 AND (PROTEIN OR PEPTIDE OR POLYPEPTIDE OR HSP OR GRP)
L93
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239 S L91 AND (10064 OR 10054)/CC
L94
L95
              0 S L91 AND TAG?
L96
              5 S L91 AND PROFIL?
L97
            249 S L93, L94
L98
              1 S L97 AND L62
L99
              4 S L97 AND MHC
             14 S L97 AND HISTOCOMPAT?
L100
             14 S L99, L100
L101
             12 S L101 NOT (TRANSGENIC OR SPLICE)/TI
L102
     FILE 'BIOSIS' ENTERED AT 12:36:57 ON 16 FEB 2001
     FILE 'WPIX' ENTERED AT 12:37:26 ON 16 FEB 2001
                E WO200009654/PN
L103
              1 S E3
     FILE 'WPIX' ENTERED AT 12:38:07 ON 16 FEB 2001
L104
          28008 S (B04-C01 OR C04-C01 OR B04-N01 OR C04-N01 OR B04-N02 OR C04-N
           1842 S L104 AND LIGAND
L105
           1104 S L105 AND (B04-K01 OR C04-K01 OR D05-H09 OR D05-H10)/MC
L106
           874 S L105 AND C12N/IC
L107
           1415 S L106, L107
L108
           5416 S L104 AND (M423(P)N102(P)Q233)/M0,M1,M2,M3,M4,M5,M6
L109
            703 S L104 AND (M423(P)N104(P)Q233)/M0,M1,M2,M3,M4,M5,M6
L110
            695 S L105 AND L109, L110
L111
L112
           1462 S L108, L111
             23 S L112 AND L26-L37, L40-L44, L54
L113
              7 S L112 AND L55, L58, L61
L114
             37 S L112 AND (MHC OR HISTOCOMPAT?(S)COMPLEX)
L115
             60 S L113-L115
L116
             59 S L116 NOT L103
L117
             44 S L117 AND RECEPTOR
L118
             14 S L118 AND (LIGAND OR HEAT SHOCK PROTEIN OR HISTOCOMPAT? OR SIN
L119
                SEL PN 6 8 13 14
              4 S E1-E15
L120
             15 S L117 NOT L118
L121
             11 S L112 AND LIGAND (S) PROFIL?
L122
             98 S L112 AND LIGAND (S) CHARACTERI?
L123
              3 S L122 AND L123
L124
              8 S L122 NOT L103, L124
L125
             12 S L112 AND HEAT (S) SHOCK (S) PROTEIN
L126
             12 S L112 AND HSP?
L127
              0 S L112 AND GLUCOSE REGULAT? PROTEIN
L128
L129
              7 S L112 AND GRP?
             18 S L126, L127, L129 NOT L103, L120
L130
     FILE 'HCAPLUS' ENTERED AT 13:10:02 ON 16 FEB 2001
          34622 S L26-L37, L39-L44, L54-L62
L131
           1257 S L131 AND LIGAND
L132
            684 S L132 AND RECEPTOR
L133
              1 S L133 AND COMPUTER APPLICATION+NT/CT
L134
              2 S L133 AND DATABASES+NT/CT
L135
              0 S L133 AND COMPUTERS+NT/CT
L136
              0 S L133 AND COMPUTER PROGRAMS+NT/CT
L137
              1 S L133 AND COMPUTER PROGRAM+NT/CT
L138
              3 S L134-L138
L139
            127 S 9/SC, SX AND L132
L140
L141
             4 S L140 AND PROFIL?
             34 S L140 AND CHARACTER?
L142
             95 S L140 AND PROTEIN#/CW
L143
             25 S L141, L142 AND L143
L144
             24 S L144 NOT L7
L145
             13 S L145 NOT CHROMATOG?/CW
L146
             13 S HEAT SHOCK PROTEIN AND L140
L147
             3 $ L146 AND L147
L148
             12 S L147 NOT L7
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L149

L150	22 S L146, L148, L149	
	SEL DN 2 22 14 15 16 19 20	) 21
L151	8 S E16-E23	
L152	14 S L150 NOT L151	
L153	16 S L139,L152 NOT L7	
FIL	'HCAPLUS' ENTERED AT 13:18:55 ON	N 16 FEB 2001
	E US98-133094/PN	
	E US98-133094/AP, PRN	
L154	1 S E4	
	E US98-96291/AP,PRN	
L155	1 S E4	
	E US99-135728/AP,PRN	
L156	1 S E4	
	E WO99-US17680/AP,PRN	
L157	1 S E3,E4	
L158	1 S L154-L157	